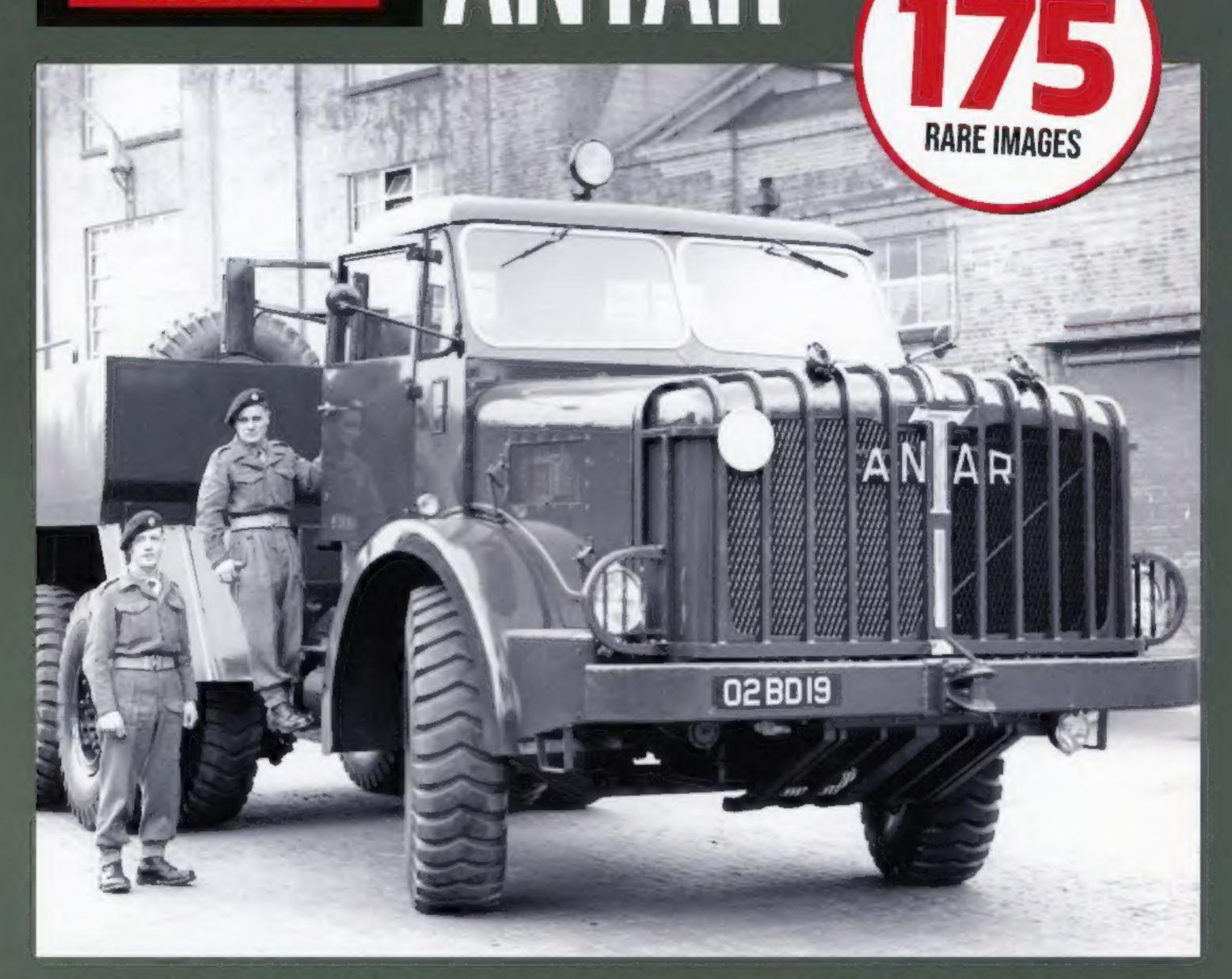
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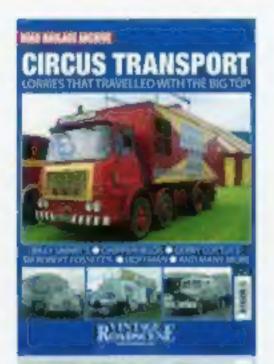
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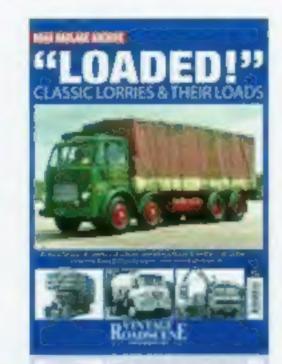
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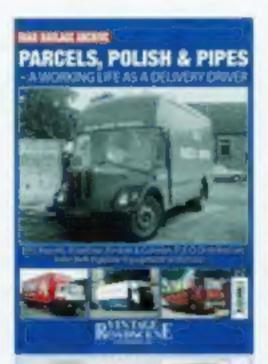
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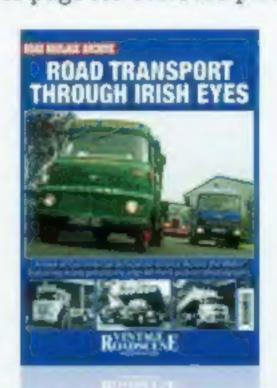
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What's in a name...?



Antar Mk 3 fifth-wheel tractor (FV12004) nosing gently out of Base Workshop 23, Royal Electrical and Mechanical Engineers (REME); Centurion tanks are carried on the FV3011 50-ton semi-trailers. Alongside its three workshop areas, Base Workshop 23 had the largest Royal Army Ordnance Corps (RAOC) stores section in the entire army. The base was located at Wetter, in the federal state of North Rhine-Westphalia, on a 50-acre site formerly belonging to the Harkort-Eicken Steel Works, and closed in March 1994.

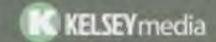
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INTRODUCTION

The Mighty Antar... Britain's biggest tractor!

When the Mighty Antar first appeared in the spring of 1950, it was Thornycroft's proud boast that here was 'Britain's biggest tractor'... even 'Commercial Motor' magazine agreed, in its edition of 3 March 1950 describing it as 'the largest tractor produced in this country' Powered by a diesel version of the Rover Meteorite engine, producing 250bhp from its 18 litres, the massive Antar was designed to operate at a gross train weight of up to 100 tons (101.8 tonnes).

he Antar was commissioned by the civil-engineering contractor George Wimpey & Sons on behalf of the Iraq Petroleum Company (IPC). A total of 35 of these tractors were eventually supplied, at a price of £9000 each, and the total cost of the contract was £315,000, equal to more than £10

million at 2019 values. The trucks were specifically intended for laying out largediameter steel pipes - 'stringing' as it is called in the oil industry - across the, largely, desert terrain of Iraq and Syria.

In what remains an amazing feat, it had taken just ten months to produce the Antar prototype, and all 35 trucks

had been constructed by the following year, and delivered to the Middle East where they were put to work on the Homs to Kirkuk pipeline.

The pipeline in question was to run across 550 or more miles (890km) of desert and scrubland. In some places, the terrain rose to a height of more than





3300 feet (1006m), and some 250 miles (405km) of the distance was nothing more than tracks across the sand. If the terrain was challenging enough, the climate was pitiless, dropping below zero at night in the winter, and reaching more than 48°C (118°F) in the summer. Local, generally Syrian, drivers were used, who, by all accounts, lacked any mechanical sympathy, and were merciless in their abuse of the trucks, occasionally running them to destruction without oil or water.

Each of the 30-inch (762mm) diameter pipeline sections measured more than 30 feet (9.15m) in length and weighed up to 15,000 lb (681kg). And each of the vehicles was expected to carry a load of 60 tons (61.1 tonne) per trip, consisting of up to ten lengths of pipe on the specially-constructed Cranes semi-trailers. It required eight Antars to carry one mile of pipe.

As the Antars were put to work in the Middle East, the Ministry of Supply and the War Office had started to show



 A ballast-bodied Antar Mk 3 dwarfs a Triumph Herald, The Mk 3 omitted the distinctive sideby-side radiators of the Mk I and Mk 2 tractors, and was fitted with a widened version of the standard Thornycroft cab of the period. The result was a considerably more attractive vehicle.

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INTRODUCTION

an interest in the truck for use as a tank transporter. It was intended as a temporary replacement for the ageing wartime Diamond Ts, and maybe to eventually steal the role of the FV1000 and FV1200 heavy tractors that, at the time, were still in development at Leyland. In the end, neither FV1000 nor FV1200 made it beyond the prototype stage, and the Antar, produced in three marks, eventually clocked up more than 30 years military service.

It might seem odd to describe such a vehicle in terms of its appearance, but, whilst the Mk 1 and Mk 2 variants have a tough, no-nonsense appearance, the Mk 3 can be considered a very attractive machine. Not only was it easily able to equal the appearance of the WW2 Diamond T that it replaced... but, at the same time, provided a considerably improved performance.

But, time marches on, and tanks just continued to get bigger and heavier. The new Challenger tank, destined to enter service in the early 'eighties, weighed 62 to 70 tons (63.1 to 71.3 tonnes) and, sadly, the Antar was not considered to be up to the job. It was replaced by the Scammell Commander, and the last examples of the Antar left Bulford Camp, on 30 January 1985, ignominiously loaded onto semi-trailers — hauled by Scammell Commanders — en-route to British Car Auctions at Farnborough for disposal.

More than 35 years have passed since then, and Thornycroft has gone the way of the entire British commercial-vehicle industry. But a handful of Antars have survived... some are in the hands of museums, others belong to brave – or foolhardy – enthusiasts. If you don't have access to the real thing, then hopefully this walk down memory lane will remind you of the time when British trucks were amongst the best in the world.

Pat Ware Series editor

ABOUT THE AUTHOR

Pat Ware has been a professional writer for more than 50 years. He is the author of more than 60 vehicle-related titles, and has specialised in

and has specialised in military-vehicle subjects since 1995. His expertise is recognised worldwide, and his books have been translated into a half-dozen languages.

In 2001, he was the founding editor of the UK's leading military vehicle magazine, 'Classic Military Vehicle' and he continues to contribute to respected military-vehicle journals in the USA and France, and in 2015 he contributed to a 10-part TV show, 'War on Wheels' for China Central Television.

His eclectic interests have also led to the publication of titles on subjects as diverse as the Cold War, commercial haulage and iconic tractors.

Three-quarter rear view of the Mk 3A fifth-wheel tractor. Note how the tailpipe sections of the twin exhausts have been removed to allow this privately-owned Antar to fit into its storage building. The tubular-steel framework behind the cab is intended for a canvas cover, both to weatherproof the winch and to provide simple overnight accommodation for the crew.



George Wimpey, the Iraq Petroleum Company and the Mighty Antar

On 22 February 1950, around 90 invited guests, drawn mainly from government departments and international oil exploration companies, gathered at the test track of the Fighting Vehicles Research & Development Establishment (FVRDE) at Bagshot Heath, Surrey to see the recently-completed Mighty Antar put through its paces. They were joined by 50 members of the staff of Transport Equipment (Thornycroft), Cranes of Dereham, the Rover Company, George Wimpey, and the owners of the truck, the Iraq Petroleum Company. The event was filmed by the BBC and by the cinema newsreel companies of the day; representatives of the trade press were also present.

onstructed in double-quick time over a period of just ten months, the Mighty Antar was a most impressive piece of work. It was also a considerable achievement, particularly when you consider that, not only was this the largest truck ever constructed by Thornycroft, it was also the largest vehicle built in Britain up to that time. Believing that the new, monster truck had a bright future, RF Newman, general manager of Thornycroft, went on the record claiming that 'there was an opportunity

for this country to save dollars by selling this transport to oil companies' In the long run, he was proved to be right, the Antar succeeded beyond the company's wildest expectations. But rather than the oil companies that he had envisaged as the customer base, the Antar turned out to be destined for a career in uniform.

Design work had started in February 1949 under the direction of Charles E Burton, Thornycroft's chief designer, and George Wimpey placed the order for 35 heavy tractors in April of the same year, on behalf of the Britishowned Iraq Petroleum Company. Quite why Wimpey had originally approached Thornycroft rather than the more obvious choice of Scammell remains a mystery, particularly since Scammell had already breached the 100-ton barrier and thus would not have been starting with a clean sheet of paper. Nevertheless, the first prototype, powered by a Rover Meteorite diesel engine that had been delivered to Basingstoke on 22 November 1949, was running before the year was out.

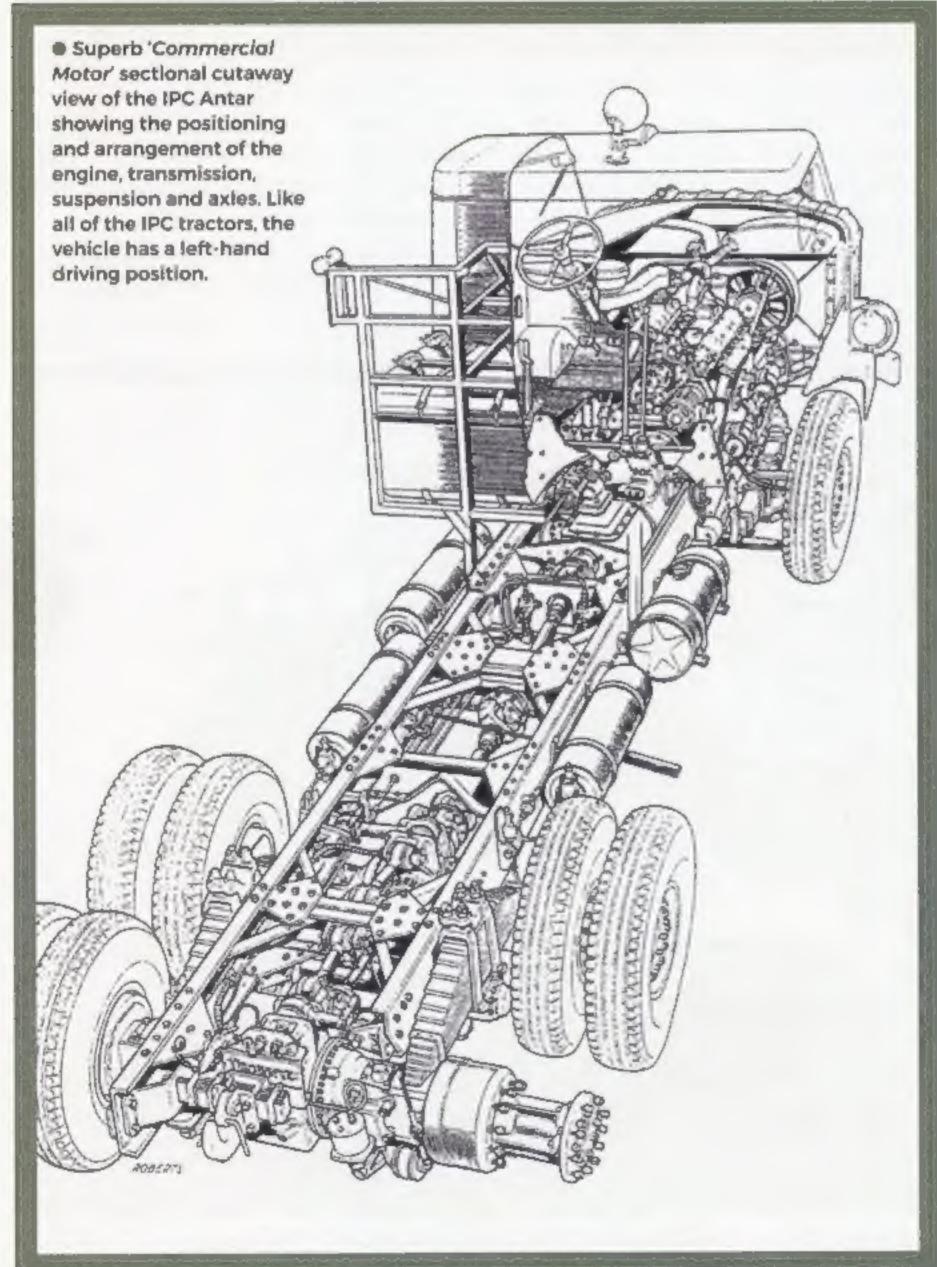
Following a short period of testing,



• The first Mighty Antar undergoing initial trials at the FVRDE test site at Bagshot Heath before being delivered to the Iraq Petroleum Company. The enormous width of the vehicle is apparent... and is clearly marked. The tractor has yet to receive its coats of finishing paint.

DEVELOPMENT





• Coupled to a Cranes low-loading machinery semi-trailer, this IPC Antar was photographed in March 1950 in front of the Regal Cinema, Edmonton. The tractor is on its way to the docks at Tilbury, and the police have stopped the traffic to allow the tractor and trailer to negotiate the turn onto the A406 North Circular road.

much of it carried out on the FVRDE test tracks, the truck was driven to the docks at Tilbury ready for delivery to Tripoli on 6 April 1950. On arrival in the Libyan port, the vehicle was photographed, tested and vetted before being put to work. Each of the 35 trucks received similar treatment following delivery to Libya.

By any measure, the Antar was a huge machine. Everything about it was over-sized and yet it was undeniably handsome, albeit more strait-laced than flashy, but with considerable road presence. The frontal aspect was dominated by the broad, twin radiators, and a massive square bonnet, under which was an eight-cylinder Rover Meteorite indirect-injection twincamshaft diesel engine. The engine was capable of producing a derated 250bhp (186kW) from its 18-litre capacity, at a maximum of 2000rpm.

Sharing a 60° dimension between the cylinder banks, the engine was effectively two-thirds of the V12 Meteor – a non-aeronautical version of the famed Merlin – that had been developed for use in the British Conqueror and Centurion tanks of the period, and in what was described as Mk 101 configuration, it was the first commercial application for the Meteorite power unit. The original Meteor was a petrol engine, but the Meteorite, as used in these first Antars, had been adapted to burn diesel fuel using CAV injection equipment. The crankcase, cylinder block, and cylinder heads were all cast from aluminium alloy, and there was a flame heater to permit starting in cold conditions. Lubrication was by means of a dry sump, which allowed the vehicle to operate at extreme angles without any fear of oil starvation, and an oil cooler was mounted in front of the right-hand radiator.

The engine was coupled to a remote four-speed constant-mesh main gearbox, via a twin-plate 18-inch powerassisted clutch, together with a threespeed auxiliary box, giving a total of 12 gears. Double worm-drive reduction axles at the rear were provided by Kirkstall Forge Engineering, with a third differential interposed between the two axles. The front axle was a simple beam design, lacking any drive facilities. Top speed on the road was governed to 28mph (45.3km/h), and it took almost a minute and a half to get there! When operated at home, the truck would have been subject to a blanket 12mph (19.4km/h) speed limit because of its size and weight.

Both the brakes and the steering system were power assisted, the former with air pressure, the latter hydraulics, using equipment developed by Clayton Dewandre.

The suspension arrangements followed the normal practice of the period, with heavy semi-elliptical multileaf springs, inverted at the rear and fitted with substantial rubber-bushed torque-reaction arms. The rear axles were arranged to allow a rise and fall of 15 inches (381mm), allowing uneven ground to be crossed without undue difficulty, and rubber bump stops and steel slings were provided to limit axle deflection. The massive tyres, each one almost four feet in diameter and weighing 5cwt (254kg), were specially made for this application since tyres of this size had never previously been required in Britain.

Although equally massive, the chassis was of straightforward design, consisting of huge channel-section side members of heat-treated steel, measuring 11.125 x 3.5in (283 x 90mm), with a full length liner, and with reinforcing plates at the rear. There were diagonally-braced bolted crossmembers, and a fifth wheel was carried on the top of the chassis.

Designed by Comjoints Limited, the twin-skinned cab was of welded and riveted construction, and was flexibly-mounted. Flat panels were used wherever possible and there were no compound curves; full-length hinged doors were fitted on either side, with drop-down glazing. All of the IPC trucks were constructed with a left-hand driving position, and the cab provided accommodation for a crew of two or three men, the driver being provided with an adjustable bucket seat, the other crew members having to make do with a small bench that doubled as a storage locker. Instrumentation was comprehensive, including thermometer, oil-pressure gauge, air-pressure gauge, ammeter, speedometer, and tachometer. Major controls, such as the handbrake, gear-shift levers, trailer brakes, etc were laid out around the driving position in the slightly haphazard manner of the period.

Twin 100-gallon fuel tanks were mounted side by side behind the cab... a necessary precaution when fuel stations are few and far between, and the fuel consumption was generally in the order of 3 to 3.5mpg (1.06 to 1.24km/litre), giving a range of about 600 miles (1000km).

The original plan had been to thoroughly test the vehicle under service conditions before the pipeline project started in order to identify any teething troubles. As it happened, this proved to be impossible and, the tractors started to be shipped overseas with only the results of the restricted running at Bagshot Heath providing any clue as to how the trucks would perform. Such trials as were conducted over a 10-day period, covered less than 10,000 miles (16,200km) but, nevertheless, the Antar acquitted itself extremely well and the engine, particularly, was considered to be capable of performing its task with little or no modification.

In a slight change from the original plan, the trucks ended up being operated and maintained by the Arabian Bechtel Company, who were the company responsible for the actual laying and welding of the pipeline.

Despite the workshop conditions being initially unsatisfactory, the trucks

ANIAR

● During the construction of the 556-mile (900km) long Homs to Kirkuk pipeline, the 35 Antars were expected to carry a load of 63 tons (64 tonne) on each trip, and it needed nine trucks to move one mile (five trucks per kilometre) of pipe. By the time the project was over, the Antars had clocked up in excess of 700,000 miles (1,134,000km) between them, with many trucks achieving mileages of between 20,000 and 30,000 miles (32,000 and 48500km) under extremely arduous conditions.



themselves proved to be sufficiently reliable to allow the project to be completed ahead of schedule... despite many trucks being sorely abused by their drivers.

Trailers

The special skeletal trailers intended for use with the Antar were designed and constructed by Cranes of Dereham specifically for this application. Conservatively rated at 50 tons, each trailer consisted of two separate frames, with rubber-lined cradles shaped to accept the 30-inch (762mm) diameter pipes. The front frame was mounted on the fifth-wheel turntable of the tractor, whilst the rear frame carried twin axles, each fitted with four wheels. Aside from the flexible piping for the airline to the rear brakes, the pipe sections provided the only connection between the two separate frames.

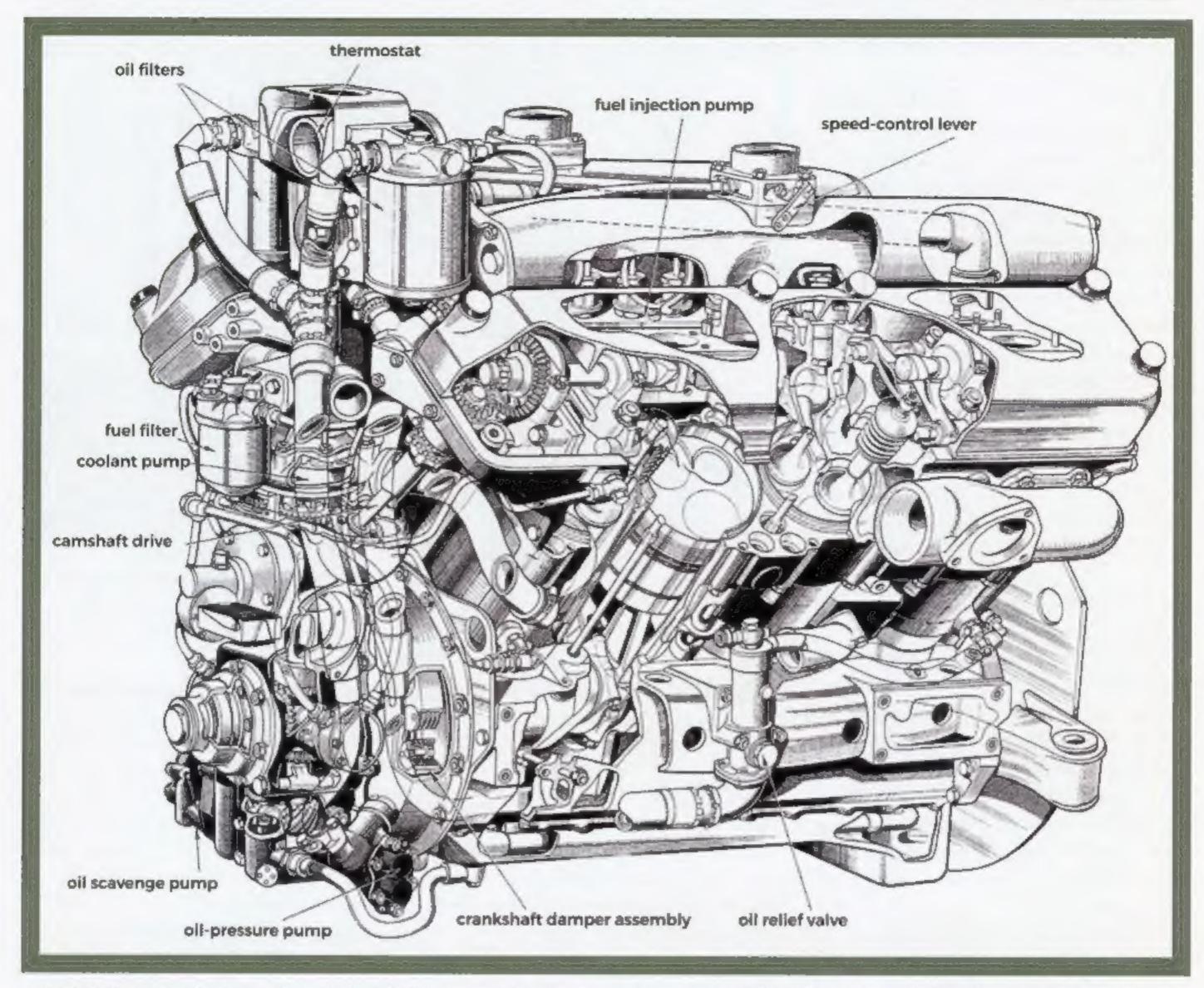
The maximum load was nine or ten pipe sections, stacked in three or four nested layers, four at the bottom, three in the middle, and two on top, with one more sometimes added to bring the figure up to ten. When the truck was running light, the trailer was carried on the tractor, with the forward frame reversed on the fifth wheel, and the rear frame was carried on top of it.

Photographs also exist showing the tractors coupled to Cranes low-loading machinery trailers.

Antars at work

In Iraq and Syria, the Antars were operated by Syrian native drivers. In some respects these men were the ideal choice since they were well used to the harsh climatic conditions of the region. In other respects they were a disaster... being described as 'merciless' in their operation of the trucks and lacking any mechanical knowledge or sympathy. Trucks were occasionally operated without oil or coolant and were sometimes run to destruction. There was also evidence of gross negligence and even of malicious damage.

In 1952, once the project was completed, the Field Service
Department at Rover produced a report on the performance and maintenance requirements of the Meteorite engine.
The report listed a litany of complaints regarding poor maintenance, which often led to engine failure, and also



Sectional cutaway view of the Rover Meteorite V8 engine in Mk 101 form. Although originally designed as a petrol engine, when equipped with CAV indirect-injection equipment, and with a higher compression ratio, the Meteorite produced 250bhp at 2000rpm running on diesel fuel. The engine was derived from the VI2 Meteor, a version of the Rolls-Royce Merlin designed for use in tanks.

made reference to damage caused by
the trucks being driven too fast for the
terrain. The report stated that by early
September 1951, the position in the
Middle East was so bad that just four
trucks were available, with 22 off the
road due to engine defects. Measures
were put in place to emphasise the
importance of proper maintenance,
and a more reasonable maintenance
schedule was instituted, and, eventually,
all of the engines were in running
condition, with a good stock of spare
engines also available.

● IPC Antar photographed in Iraq, coupled to the special Cranes skeletal semi-trailer that was used to carry the pipe sections. The pipes were stacked by crane into three or four layers, with a maximum of 10 pipe sections carried on each journey.



DEVELOPMENT

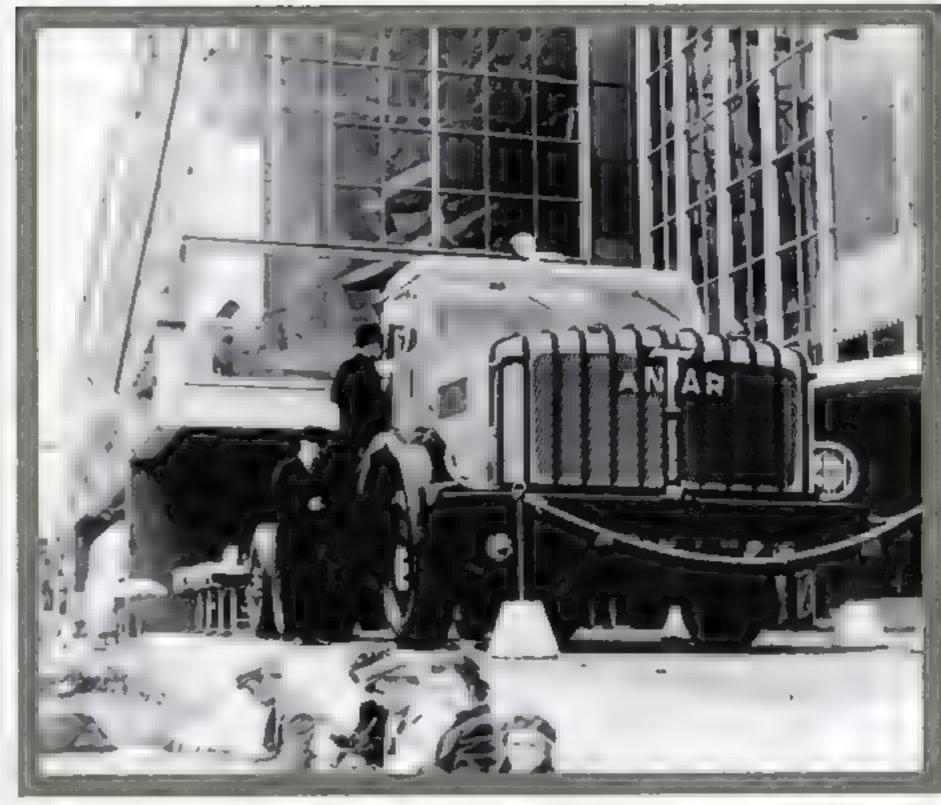
During the construction of the 556 mile (900km) long pipeline, the 35
Antars clocked up in excess of 700,000 miles (1,134,000km) between them, with many trucks achieving mileages of between 20,000 and 30,000 (32,000 to 48,500km). Aside from the problems due to abuse, such difficulties as arose were generally minor in nature, including, for example, broken brackets and pipes, radiator leaks, silencer problems, and noise and vibration due to the jackshaft connecting the engine to the gearbox.

At the end of the project, the vehicles were handed over to Arabian Bechtel and around half of them found a longer lease of life being used with low-bed machinery trailers to haul construction equipment, plant and other stores.

From strength to strength

In September of 1950, the truck was exhibited at the Commercial Motor. Show at Earls Court, where it dwarfed other vehicles on the stand and drew considerable attention. At the time, Britain was the world's leader in the export of commercial vehicles and British commercial vehicle manufacturers played a key role in bolstering Britain's economy throughout the 'fifties.

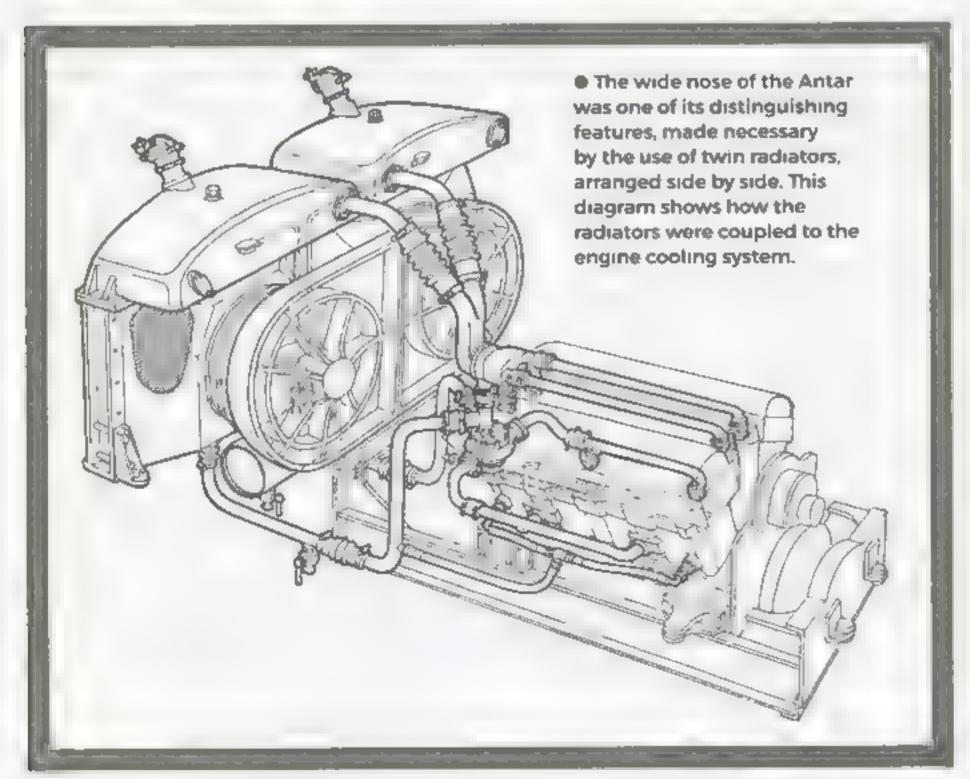
The Antar was also offered up to public scrutiny, when it appeared at the Festival of Britain on London's South Bank in the summer of 1951. The Festival, which opened to the public on the



Painted bright red with black mudguards and radiator detail, this IPC Antar was displayed at the Festival of Britain on London's South Bank in 1951. The tractor had already made its public debut at the Commercial Motor Show at Earl's Court the previous year

4 May 1951, was a celebration of British industry, arts and science and the massive Antar must have been quite a sight for those who were more used to the modestly-sized British trucks of the period.

In 1953, Thornycroft announced a new, short wheelbase, ballast-box version of the Antar destined for export to Australia. Complete with a 120swan-neck drawbar trailer, the trucks were intended for use on the Snowy Mountains hydroelectric project, and were similar in many respects to the IPC tractors. With one tractor leading, and the other bringing up the rear, the outfit was tested, and demonstrated, in Britain by crews from Robert Wynn and





 Interior view of the cab, showing the lefthand driving position.







● In 1953, Thornycroft supplied two short-wheelbase, ballast box versions of the Antar to Australia for use on the Snowy Mountains hydroelectric project. The tractors are seen here during testing in the UK, coupled to a Cranes hydraulically-suspended drawbar trailer carrying a 100-ton (101) tonne) stator, under the watchful eye of Robert Wynn and Sons. Note the enormous size of the Antar train compared to the typical eight-wheeled truck of the period

DEVELOPMENT

Sons, carrying a 100-ton (101 tonne) stator from GEC at Witton, Birmingham, to Uskmouth power station in North Wales. The Snowy Mountains teams rode in the cab and were expected to share the driving duties, although anecdotal evidence suggests that they were very nervous of the narrow British roads.

The original Mk 1 was replaced by the much-improved Mk 2 in 1955, which was based on the Snowy Mountains tractors, and then by the Mk 3 in 1959. Both were constructed in fifth-wheel

configuration for use with semi-trailers, and as ballast tractors for use with a drawbar trailer.

Production

All of the Antars were constructed at Thornycroft's Basingstoke factory, situated on a 63-acre site at Worting Road, where the company had been established since 1898. The Meteorite engines were built at Rover's Ministry of Supply factory at Acocks Green, where the Meteor engine was also built.

Antars remained in the company's catalogue until 1965 but, by this time, Thornycroft had been taken over by **AEC's parent Associated Commercial** Vehicles (ACV) - in 1961 - followed by a merger with Leyland the following year. The total number of Antars, constructed, of all marks, was in excess of 700 with production finally coming to an end in 1964.

The Basingstoke factory closed in 1969, and all truck production moved to Scammell at Watford, where it could be argued that the subsequent Commander was effectively an Antar Mk 4. The Basingstoke site was sold in 1973 to the

FACTS & FIGURE - THE IPC ANTARS Eaton Corporation of Ohio. Engine: Raver Meteorite Mk 101, diesel 60° V8 60" V8 Cylinders 1099in³ 18,019cc Capacity 137.1 x 152.4mm 54 , 6in Bore and stroke diesel oil Fuel 250 bhp 186.5kW Power output at 2000rpm 987Nm 728 lbf/ft Maximum torque at 1250rpm Dimensions and weight 9702mm 382in Overall length 3124mm 123in Overall width 120in 3050mm Height to top of cab 6401mm 252in Wheelbase 1575mm 62in Bogie centres Cround clearance 16.5in 419mm front axie 15.5in 394mm rear axle 533mm 21in: belly 25.9m 85ft Turning circle (solo tractor) Weight 15.5 ton 15.78 tonne unladen maximum permissible axle laden weight 9.16 tonne 9 ton front Mi ton 36.65 tonne reari 100 trun 102 tonne maximum gross train weight Performance 1.06 1.24km/litre \$-3.5mpg Fuel consumption Maximum speed 45.5km/h 28mph overdrive (top) 33.2km/h 20.5mph directi l in 2.5 40% Maximum grade (solo tractor)

The Army's bacon is saved by the Antar Mk I (FVI2001)

At the beginning of WW2, the standard British heavy tank transporter - what these days we would describe as a heavy equipment transporter (HET) - was the Scammell Pioneer TRMU/TRCU, initially rated at 20 tons, but later upgraded to 30 tons. The design dated from the late 'twenties and, lacking front-wheel brakes and almost any attempt at creature comforts, was almost certainly obsolete soon after it entered service in 1937. It was superseded by the Diamond T Model 980/981 in 1941, a fine piece of work that was ultimately rated for 40 tons. However, tanks had become inexorably weightier as the war ground on and by 1945, the Centurion, which was intended to be the standard British main battle tank of the post-war years, weighed in at 45 tons (45.8 tonne). The Conqueror, which could trace its origins back to 1944 but which finally entered service in 1955, weighed a massive 65 tons (66.2 tonne).

wo new tank transporter/recovery vehicles were being developed to handle the weight of these tanks... the FV1200 which was designed to be used with the 50/60-ton tank transporter trailer, and the FV1000, with the ability to handle up to 100 tons gross train weight.

As is the way of such projects, especially during those cashstrapped post-war years, progress was at best halting. At the same time, the requirement was urgent... the Conqueror tank was in development, Centurions had appeared at the very end of WW2, and, although suitable trailers had been ordered, there was no tractor available to transport either tank from base to battlefield. True, the Diamond T was able to gain a useful life extension when its original Hercules engine was replaced by a Rolls-Royce C6, with work beginning in the early 'fifties, but it was never going to cope with the weight of the mighty Conqueror and its days were clearly numbered.

With progress all but stalled on the FV1000 and FV1200 projects, the Army must have been in something of a panic... with the appearance of the Antar coming just in time to save the day.

In August 1949, at a meeting convened to discuss the development of Britain's post-war military vehicles, the Director of Fighting Vehicle Production



 Antar Mk 1 (FVI2001) from contract 6/Veh/5302, dated 1951. The contract called for 15 tractors, for the War Office, for which the official nomenclature was Tractor, 30 ton. GS, permanent body, 6x4, Thornycroft Antar' The steel ballast body was not removable.

 The frontal aspect demonstrates the sheer size of the vehicle, while the twin radiators emphasise the width. Note the slinger rings fitted to the wheels to allow the vehicle to be hoisted by crane onto the deck of a ship.





• When the FV1000 project was dropped in March 1955, the single prototype was converted for gradient-simulation duties at FVRDE By this time, the Antar had proved itself to be more than capable of moving even the Conqueror tank, and the FV1000 prototype was eventually scrapped in the mid-seventies. drew the attention of delegates to the Thornycroft Mighty Antar – although, interestingly, the military never called it the Mighty Antar, always dropping the adjective – and in particular, to the claim that it could handle an 82-ton (83.5 tonne) load. It was agreed that the availability of the Antar be

investigated during 1951/52 with a view to considering it as an alternative prime mover. The lack of front-wheel drive meant that it could not be considered as a direct replacement for the FV1000/FV1200s but it would get the army out of a hole!





• Forming part of a projected 30 ton FVI200 series. FVI201 was described as an artiflery tractor—the series also included fifth wheel tractors for moving tanks both on and off the road (FVI206, FVI207). Like the FVI000, the vehicle was powered by a fuel-injected Meteorite engine.



Twin giants, although FVI200 actually manages to make the Antar look quite modest*

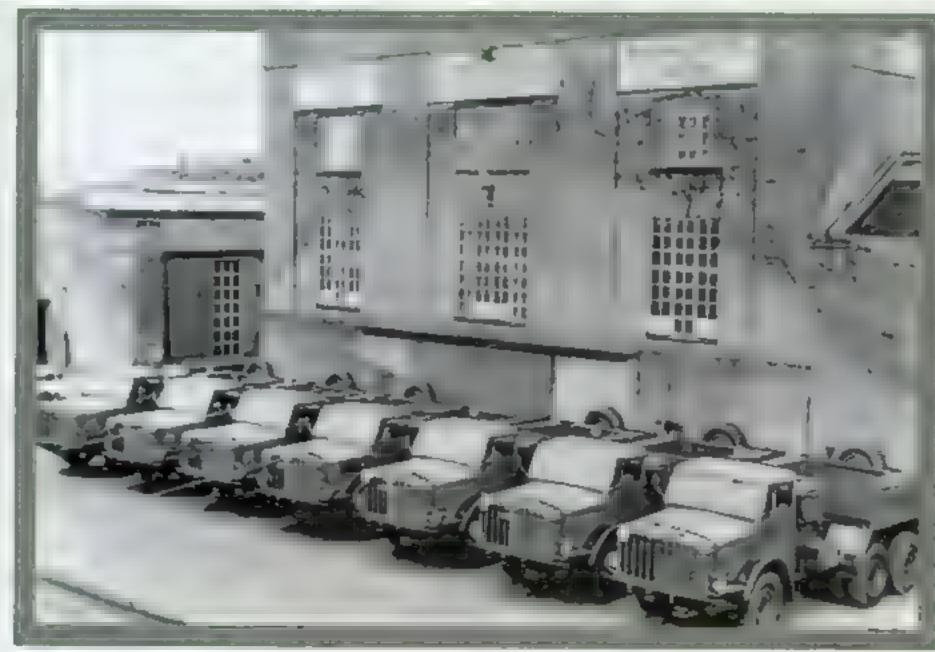
ANTAR MK 1 ANTAR MK 1



There were none of the usual trials. It seems that the Army had seen the Antar in action at Bagshot Heath in 1950 and, had doubtless had sight of Rover's report into the running of the Meteorite engine in Iraq. With little or no further formality, the Ministry of Supply went ahead and placed the first contract for Antars in 1951.

The first contract for Antars covered 15 vehicles, in what the Army described as Mk 1 configuration, designating the vehicle FV12001. The price of each tractor was £8177 - more than

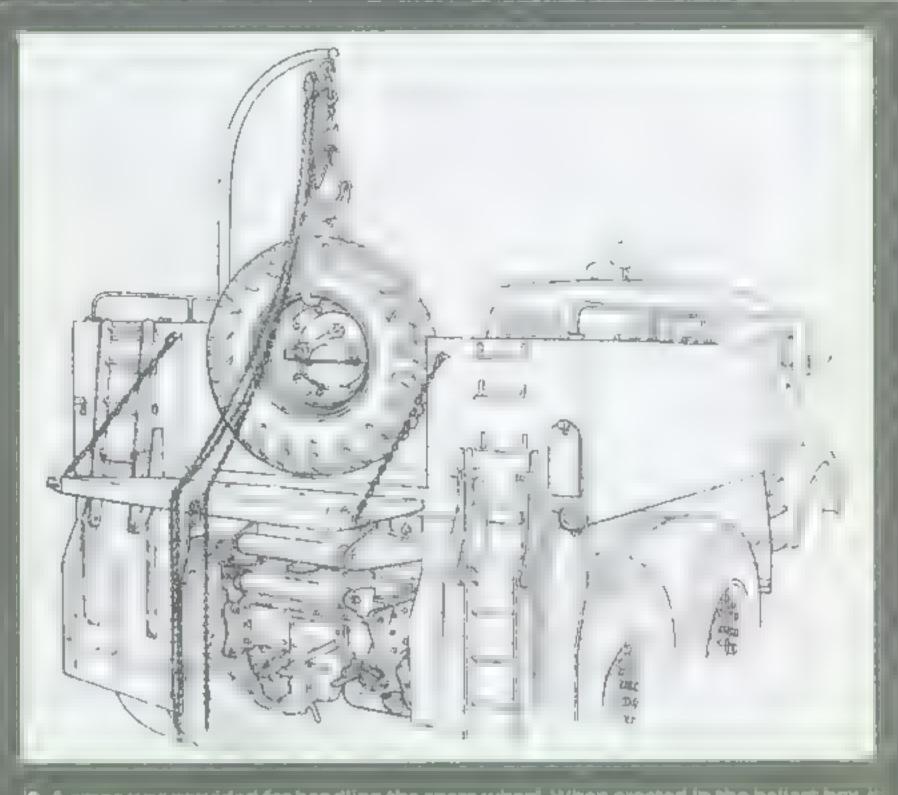
 Line-up of seven, out of a total of eight, Antar Mk 1 tractors intended for the RAF and supplied under contract 6/Veh/5718 Obviously the photograph was taken at Thornycroft s works.



£254,000 in today's money. Work on the first vehicle started in March 1951 with delivery in late June, when it was submitted for trials at FVRDE, and there was a subsequent contract from the Air Ministry for eight trucks.

By 1952, the last of the Mk 1s had been delivered and all subsequent deliveries were of the Mk 2 or Mk 3 specification, and, although both the FV1000 and FV1200 projects had yet to be abandoned, Thornycroft were boasting that 'no other tractor is under consideration for the same purpose'

The FV1000 project was finally abandoned in 1955, due to problems of weight, cost and mobility. No more than one vehicle was constructed, ending its days, much modified, as a gradient



 A crane was provided for handling the spare wheel. When erected in the beliast box, it silowed the wheel and tyre assembly, which weighed 5 cwt (255kg), to be lifted free of it mounting at the reer of the body, and lowered to the ground

simulator at the FVRDE at Chertsey before being sold for scrap in the midseventies. Although two prototypes were constructed of the FV1200, this project too was eventually cancelled, although it did struggle on until 1960. Both of the prototypes ended up as scrap in Hardwick's yard in Ewell. Interestingly, the last Diamond Ts were not demobbed until the mid-seventies but, by this time, they were reserved for tank movements in Britain.

Description

The Ministry of Supply described the Antar as being 'basically a commercial tractor that has been modified for military purposes' In most respects, this was true, but there were three major modifications when comparing military Antars to the original Iraq Petroleum vehicles

Firstly, the overall length of the vehicle was reduced by 50 inches (1263mm), from 382in to 332in



• 02BD16 was the second vehicle of an initial batch of 15 Antars Mk 1 (FV12001) intended for the Army, and supplied under the first contract dated 1951. The winch, which was installed between the cab and the ballast box can be clearly seen; note the lack of trafficators, which were normally fitted to the rear corner of the cab.

ANTAR MKI

(9703mm to 8440mm), giving a wheelbase of 186in (4720mm) rather than 252in (6400mm).

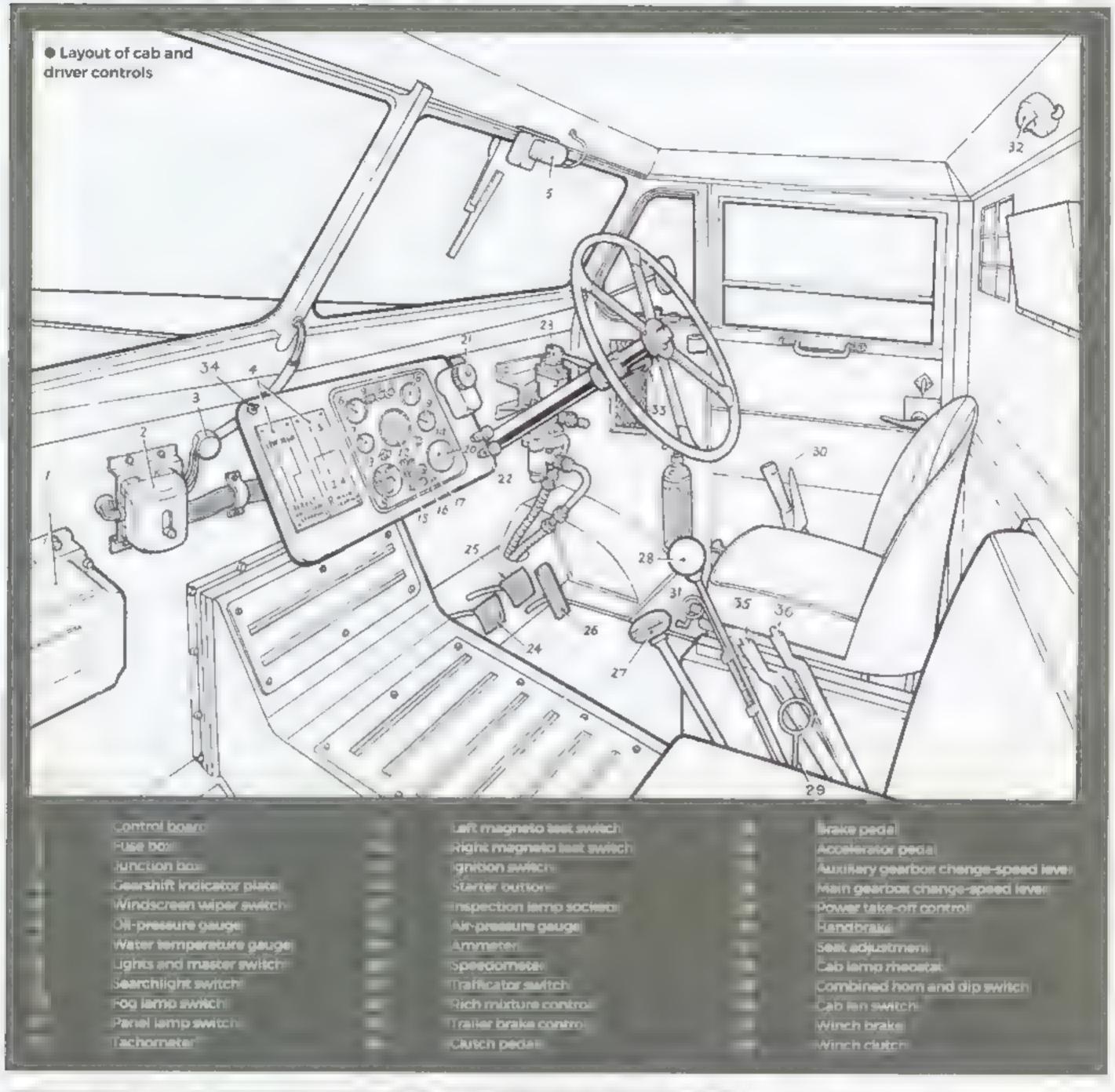
Secondly, where the Iraq Petroleum tractors had been designed for use with a fifth-wheel trailer, the military Mk 1 was fitted with an open-topped steel ballast box to allow its use with a drawbar trailer. The average ballasted load was 33,000 lb (15 tonne), but a maximum of 60,000 lb (27.27 tonne) was authorised. An engine-driven Darlington winch, rated at 20 tons, was installed behind the cab to assist with loading and unloading disabled tanks; the winch could not be used for self-recovery.

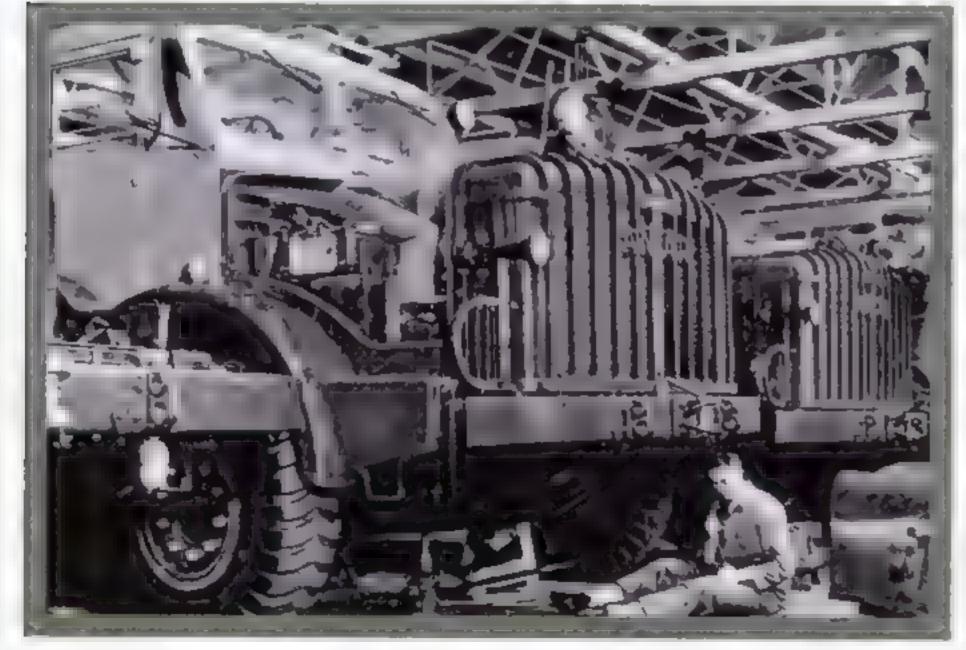
And lastly, the Meteorite engine in diesel form was considered to develop insufficient power for tank-transporter duties and was replaced by a twincarburettor version, designated Mk 204. Designed to run on standard military 68/70-octane fuel, the engine was fitted with a pair of huge Solex 46ZNHP carburettors, and sparks were provided by two BTH magnetos, with two spark plugs installed per cylinder. Power output was 260bhp at 2000rpm, an increase of just 4% over the original, with a maximum torque figure of 800 lbf/ft (1085Nm). However, the price of all this petroleum-induced power was high, with fuel consumption, when fully loaded, measuring around one mile per gallon (0.35km/litre).



• View of the interior of the cab, showing the driving position and the layout of the controls. The driver's seat was adjustable, but the two passengers had to make do with a simple bench seat







The transmission arrangements remained as before, with a power-operated Borg and Beck twin dry-plate clutch, interposed between the engine and a remotely-installed constant-mesh four-speed main gearbox, which lacked synchromesh. A mechanical clutch-brake system was employed to aid upward changes, and the transmission was also fitted with a cooling fan. The auxiliary gearbox had three ratios, designated 'low' (1.728:1), 'direct' (1:1), and 'high' (0.732:1). It was apparently

• Mk 1 Antars photographed in the erecting shop. Clearly, the size of the vehicle means that it is not possible to construct it without climbing on, or over, every flat surface... so, presumably the final coat of paint was not applied until all of the construction tasks had been completed.

ANTAR ME I

• Rear view of an RAF Mk I showing the drop-down tailgate to the ballast body, with folding ladders on either side to ease access into the body, and the spare-wheel position. The winch fairlead rollers are beneath the tailgate.

not possible to skip gears when driving the beast, and missing a gear meant that it was necessary to stop and restart!

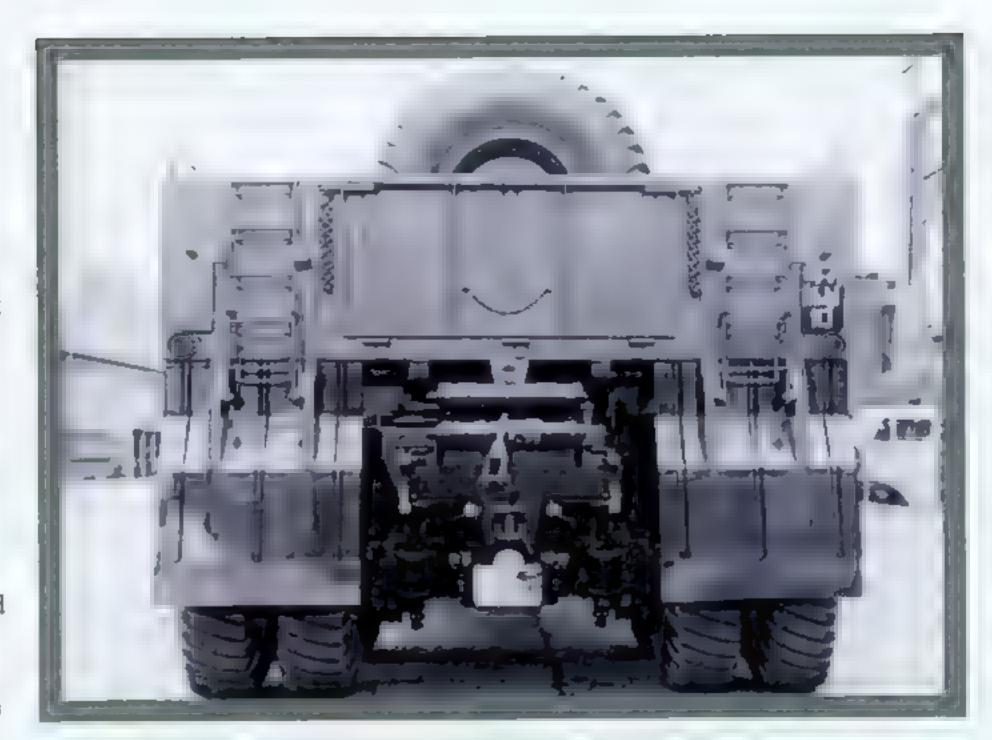
The main gearbox also included power take-off facilities for the winch and the braking system compressor, which, incidentally, could also be used to inflate the tyres.

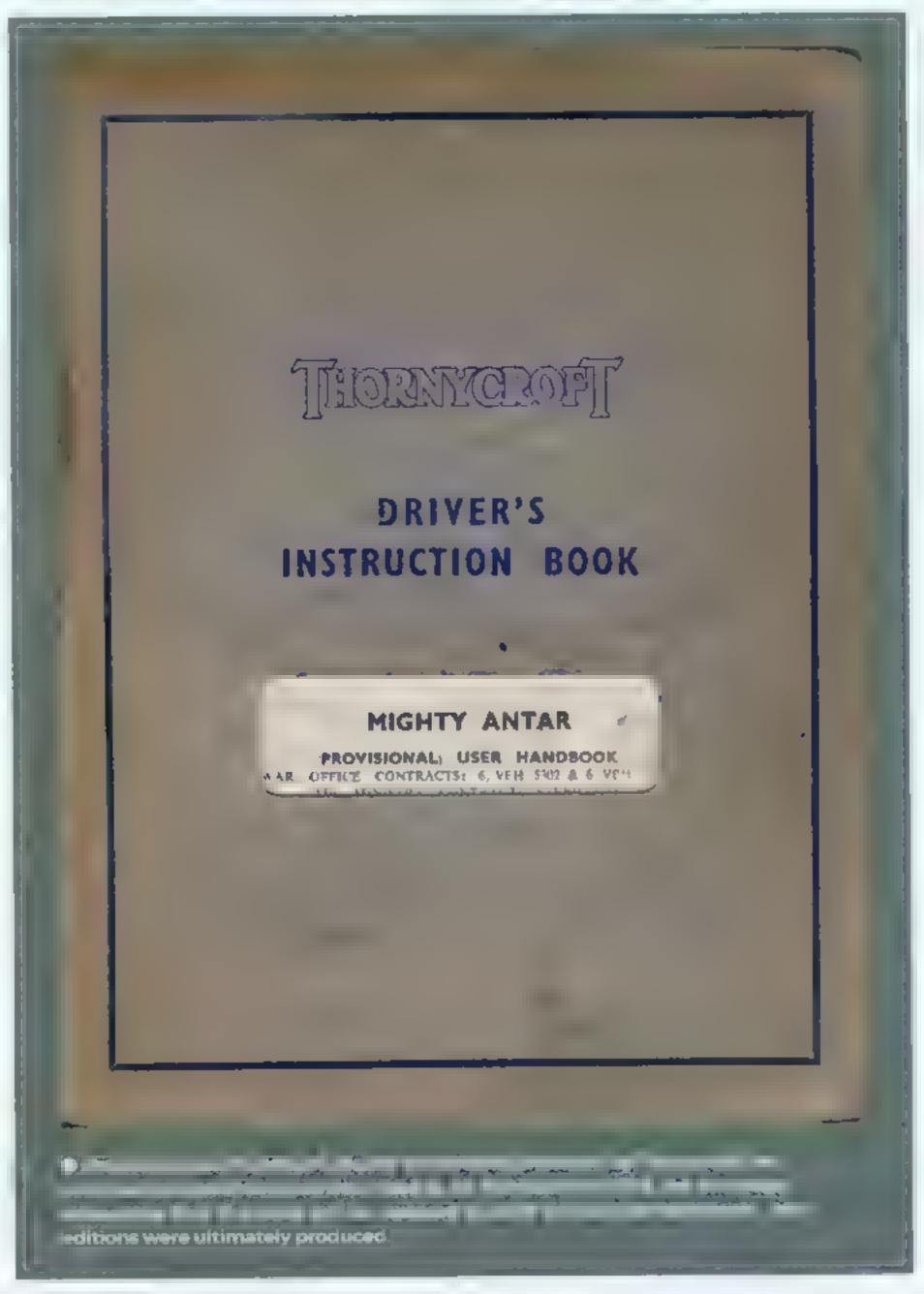
The braking and steering arrangements followed previous practice, with power assistance provided by air-pressure and hydraulic systems, respectively. Airline connections were provided front and rear to allow tandem operation under single control, and to permit the trailer brakes to be operated by the tractor. A hand-reaction valve in the cab allowed the trailer brakes to be operated independently of the tractor, for example during down-hill descents.

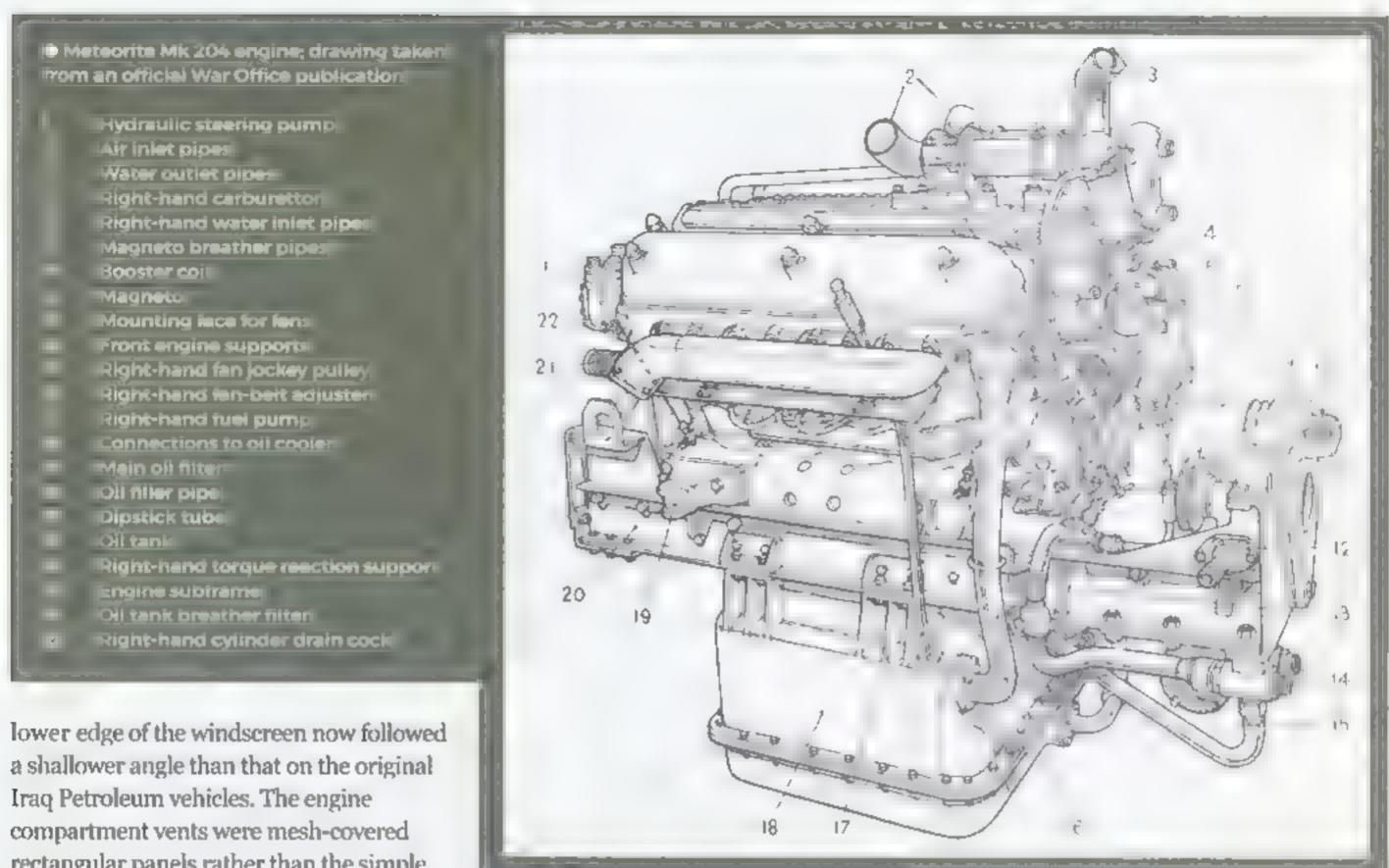
The steering box was a Marles camand-roller design, with a massive
steering wheel that still required 5.75
turns from lock-to-lock to give a turning
circle of around 68 feet (20.7m). The
hydraulic assistance on the steering
system was not very effective, and, to
quote the War Office 'B Vehicles data
summary book', 'the power assistance
only works efficiently at engine revs over
1200rpm'... which, of course, is when it
is least needed!

Live axles were fitted at front and rear, and the suspension consisted of multi-leaf semi-elliptical heavyduty springs, inverted at the rear and pivoted on bolted spring boxes. Thornycroft claimed that the use of a lighter, undriven, front axle ensured that, when coupled to a loaded trailer, the maximum weight was placed over the rear wheels where traction was required. Wheels were shod with earthmover tyres, for example Goodyear 'Hard Rock Grip' or Dunlop 'Power Grip'

The cab was very similar to the original Comjoints design but was produced by Bonallack & Sons, or by Thornycroft using panels supplied by Motor Panels Limited. Changes included the use of a covered hatch over the passenger seat to allow the use of an anti-aircraft machine gun, and the







rectangular panels rather than the simple slots that had been provided on the original IPC tractors. Wide steps and handgrips were provided to ease access, and there was seating for three: the driver on an adjustable green-finished canvas-covered bucket seat, with space for two passengers on a fixed bench, which also provided

accommodation for the batteries.

Trailers

The military Antar was intended for use with the 50-ton drawbar trailer designated FV3601, which had been introduced to 'lift' the Centurion main battle tank, and which could also be found coupled to the Diamond T

Manufactured by Dysons and Cranes of Dereham, in three marks, it was not unlike the British 40-ton trailers of the WW2 period, albeit with a wider deek, and carrying four rather than three lines of axles. Each axle line was four sets of twin wheels, giving a total of 32 wheels.





FACTS & FIGURES - MK 1, FV12001 ANTARS

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The Antal Mk 2 (FVI2002, FVI2003) supersedes the original Mk I

By the time production ended in 1952, the total number of military Mk 1 tractors that had been produced was just 23 vehicles, but, on 16 April of that year, Thornycroft started work on the first tractor to be designated as Mk 2. It was one of a batch of 13 examples, the first two of which were destined for South Africa. The third example off the line was delivered to the British Army in December 1952, at the same time, apparently, that the last Mk I was also delivered. It is a mistake to imagine that the Mk 2 was anything more than a slightly-modified version of the Mk 1... it was certainly not redesigned in any meaningful sense and shared almost all of its engineering features with its predecessor



High-level rear view of the Antar Mk 2 (FVI2002) tractor, showing the fifth wheel, the winch and the twin exhaust pipes.

ANTAR ME 2





• Well-loaded, with what looks for all the world like concrete fence posts, this Mk 2 (FV)2003) ballast-box tractor was photographed at Thornycroft's works. Note the anti-aircraft machine-gun mount on the roof, positioned over the passenger seat

● 328P99 was the first of 60 fifth-wheel tractors to be supplied under contract 6/Veh/15775, dated 1954. Aside from the replacement of the ballast box by the fifth wheel, minor changes when compared to the Mk 1, and to early Mk 2s, include the use of flashing indicators, repositioned headlights, and additional rear-view mirrors fitted to the radiator guard.

esignated FV12002, and occasionally referred to in the early days as the 'Mk 1 for semitrailer', the specification (FVRDE Specification 9173) covering the design, construction and performance of the Mk 2, included the words 'basically similar to the tractor 30 ton 6x4 (in other words, the Mk 1)... but embodying the modifications found necessary during previous proving trials'

Unfortunately, whatever these modifications were, they were not spelled out in detail in the document and, to the casual observer, little had changed. The automotive details, for example, were near-identical. The Meteorite petrol engine in Mk 204 configuration was coupled to the rear axles through a four-speed main gearbox and three-speed auxiliary box. The torque figure was increased to 860

lbf/ft (1166Nm) and there was some confusion about engine power-output figures; various sources contradicted one another, with figures of 250bhp, 260bhp and 285bhp (186, 193 and 212kW) being quoted.

It is interesting that the Army considered the continued use of the Meteorite engine to be no more than a stopgap until a suitable domestically-produced diesel became available... the specification document for the Mk 2 actually included the words 'until a suitable compression ignition engine has been approved for use with this vehicle, propulsion shall be by means of a Meteorite petrol engine'

Similarly, no serious changes seem to have been made to the steering, braking or suspension systems, although some components were redesigned to reduce the possibility of breakage. The main difference between this and the original Mk 1 was simply that there was a fifth wheel fitted for use with a 50- or 60-ton semi-trailer. Supplied by Davies Magnet Limited, the fifth wheel was of conventional design and was placed at a height of 64in (1630mm) above the ground.



28 | MILITARY TRUCKS ARCHIVE



Batch of four early Mk

2 ballast-bodied Antars photographed passing

through Banbury, en-route

for the docks at Liverpool

The cab was of twin-skin insulated construction, and was very largely unchanged when compared to that used for the Mk 1, retaining its flat panels and distinctive perpendicular appearance. There was a 20-ton chaindrive Darlington winch fitted behind the cab, and an anti-aircraft gun mount was still installed above the passenger seat. Changes included mounting the

behind the cab, one either side, covered by protective panels; the storage lockers were now placed on top. The frontal aspect was changed slightly by virtue of fitting four additional headlights below the front bumper to supplement the radiator-mounted lights, and, eventually

old open-topped steel ballast body was replaced by a fifth wheel.

As with the Mk 1, the top speed was a theoretical 28mph (45km/h) but, of course, the road traffic legislation of the time restricted this to just 12mph (19km/h) on British roads.





• The rear of the steel-framed timber ballast box had a recess into which the spare wheel could be stowed. A folding ladder was provided on the left hand side to ease access into the body. In a nice little detailed touch, note how the winch cable is hung on a small chain, presumably to prevent rattiling. The vehicle has yet to be given its registration number





trailer. In a change from the Mk 1, which had a fixed, steel ballast body, FV12003 was fitted with a simple steel-framed timber-panelled body, designed to carry 31,000-60,500 lbs (14,090-27,500kg) of steel ballast in the form of large, cast weights. If required, the body could be easily detached, and replaced, allowing a fifth wheel to be fitted in its place. The ballast tractors also carried a spare wheel, together with a crane and davit system to aid handling, either behind the cab or in the ballast box.

Trailers

The FV12002 tractor was equipped with a fifth wheel for use with the FV3001 60-ton semi-trailer, which was designed to carry the Conqueror and Chieftain main battle tanks, or the later FV3011 50-ton equivalent, which was intended for the Chieftain.

Like the Mk 1 tractor, the FV12003 was generally coupled to the FV3601 50-ton drawbar trailer, which by this time was considered to be something of an antique!

Diesel trials

During the spring and summer of 1956, a standard petrol-engined Meteoritepowered Antar was pitched against a pair of development vehicles, one fitted with a Rolls-Royce C6SFL sixcylinder supercharged diesel engine, the

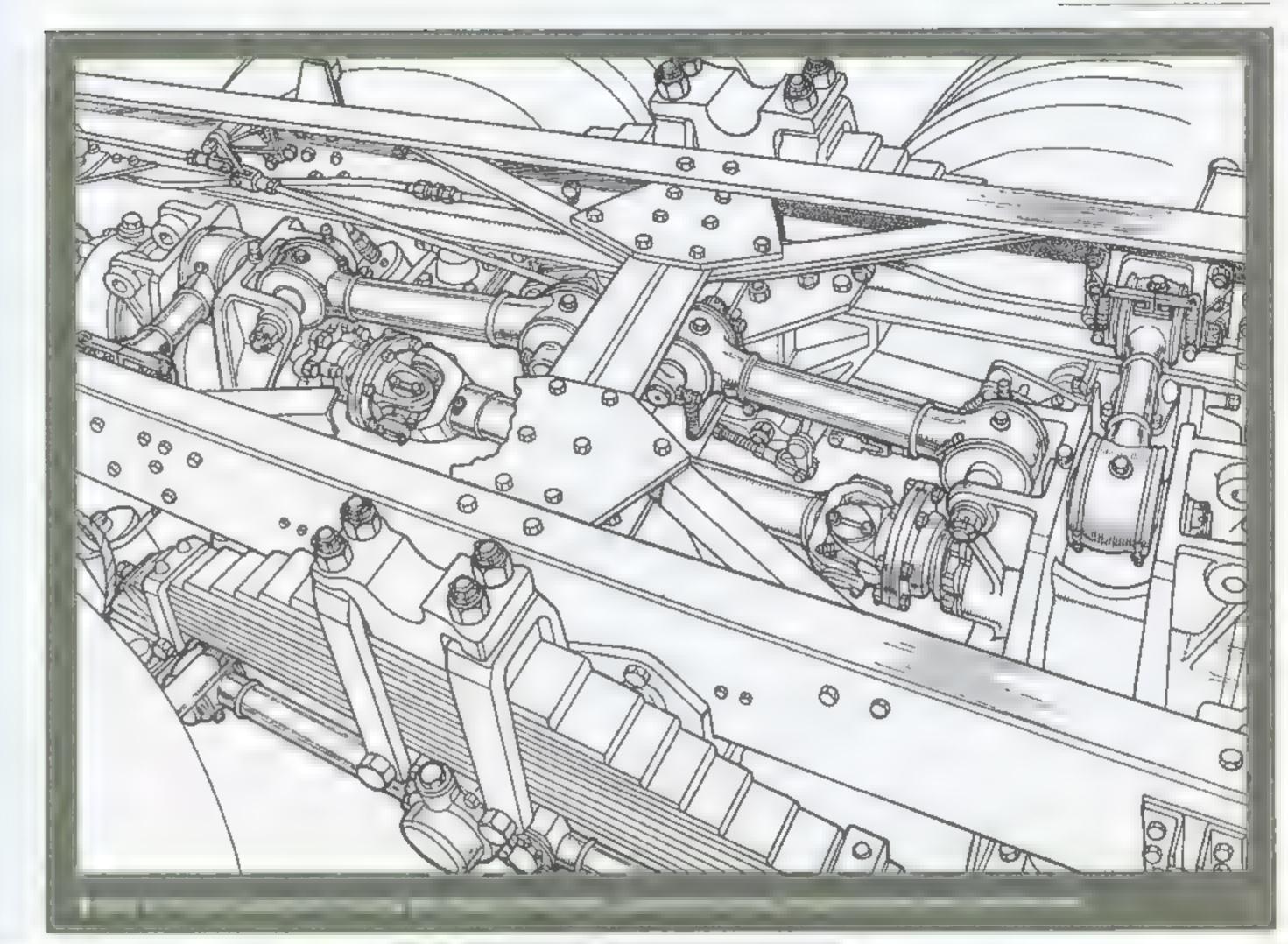
• Early Mk 2 (FVI2002) coupled to the FV3001 60-ton semi-trailer. This tractor is still fitted with semaphore indicators. The guide for the winch cable can just be seen at the forward end of the swan neck.



ANTAR MK 2 ANTAR MK 2



• FVI2003 was the Mk 2 equivalent of the original ballast-bodied military Antar. Unlike the Mk 1, the ballast body was of steel-framed timber construction, and could be removed to allow a fifth wheel to be fitted.





other with an experimental Meteorite modified to run on diesel fuel. One of these tractors was fitted with a fifth wheel, the other with a ballast body.

At the end of the trials, the ballastbodied vehicle in combination with a drawbar trailer was said to offer the best manoeuvrability. It was, grudgingly, concluded that the petrol Meteorite offered the best all-round performance, whilst the diesel version offered the best fuel consumption... nevertheless, FVRDE and the War Office were determined that the next iteration of the Antar would be diesel powered.

FVRDE Exhibitions

Between 1954 and 1971, a series of biannual exhibitions were held at the main FVRDE site in Chertsey, in collaboration with the Society of Motor Manufacturers & Traders (SMMT). The exhibitions were intended to demonstrate the capabilities of various British military vehicles, with a view to selling them in export markets. The Mk 2 Antar was displayed at these exhibitions in 1952 and 1954, complete with the appropriate trailers.

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Overhead view of 32BP99 a Mk 2 fifth-wheel tractor, showing the Darlington 20-ton winch, the Davies Magnet fifth wheel, and the short trailer coupling guide rails. When compared to the Mk 1 tractor, the twin 100-gallon (454 litre) fuel tanks have been relocated to either side of the chassis, behind the cab, with storage lockers above them.



• Antar Mk 2 (FVI2003) ballast-bodied tractor. This example has flashing indicator lights and additional rear-view mirrors, and has been fitted. with the mount on the cab-roof for an anti-aircraft machine gun. The slinger rings on the front and rearmost wheels were only fitted to vehicles intended for export



• Antar Mk 2 (FVI2002) of the Royal Netherlands Army coupled to a semi-trailer loaded with a Centurion tank. Note the position of the tractor spare wheel. The low height of the trailer bed, when compared to British trailers, forces the tank to have to climb high over the trailer wheels before dropping down from the ramps.

ANTAR MK 2



Shiny, factory-fresh early-production Antar Mk 2 (FV12002) coupled to the 60-ton FV3001 semi-trailer produced by Joseph Sankey & Sons; the trailer runs on 16 wheels arranged on the axles in pairs. The position of the fuel tank, above the storage locker suggests that this could be a prototype.

Production

The Mk 2 tractors remained in production at Basingstoke until July 1957, with the total number supplied to the British Army being 353. This figure includes a single FV12002 vehicle for trials fitted with an RV-30 electro-pneumatic eight-speed automatic gearbox produced by Self Changing Gears Limited. The vehicle was submitted for trials in June 1958, at the end of which it was concluded that the gearbox saved a great deal of driver fatigue. Curiously, the gearbox was never subsequently specified for use in the military Antar, but was the standard offering on the commercial Antar Sandmaster, a special extra-duty truck with a 300bhp (223kW) six-cylinder Rolls-Royce engine and over-sized sand tyres.

By 1957, the maximum speed limit for oversized loads had been increased and the old Mk 1 and 2 Antars were clearly no longer up to the task. Work began on their replacement, concentrating, at first, on the selection of an appropriate engine.





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Antar ballast-bodied tractor (FV12003) coupled to a Dyson/Cranes 50-ton drawbar trailer, photographed in the German snow



• The stencilling on the cab door tells us that Lance Corporal Thomas is at the wheel of this Antar Mk 2 fifth-wheel tractor which is busy delivering new Centurion tanks, using the FV3011 50-ton semi-trailer. Centurions were built at the Royal Ordnance Factories at Barnbow (Leeds). Nottingham and Woolwich. The canvas shelter behind the cab provided overnight sleeping accommodation for the Antar crew.



• Antar fifth-wheel tractor (FVI2002) running on trade plates, and carrying a partly constructed Alvis Stalwart 5-ton amphibious truck on its semi-trailer, 7IBR39 dates from 1955 and was constructed under contract 6/Veh/21396.

Registration numbers

The following registration numbers were issued to Mk 2 Antars, although the list is not necessarily complete:

94BD75-95BD00

THE PERMIT

19 81970 78 81973

19 E 29 5 2 0 SI2 95

SHERVERY BELLEVILLE

Other registrations for Antars operated by FVRDE, or other governmental bodies outside of the services, include NGY 75, NGY 560 and 561 and RGX 982.

Commercial Antars

The success of the Antar in Iraq mevitably led to other commercial sales, and, by mid-1955, Antars had also been supplied, among others, to Sir Robert McAlpine, Shell Petroleum, Steels Engineering, and HCL Sieberg, and were in use in locations as far apart as Australia, Burma, Egypt, Kuwait, the Netherlands, Sarawak, South Africa, Syria, and Venezuela.



 Two more shots of what is possibly a prototype Mk 2 fifth-wheel tractor, complete with its FV3001 60-ton semi-trailer, photographed at Thornycroft's works and the FVRDE test site. respectively



ANTAR MK 2



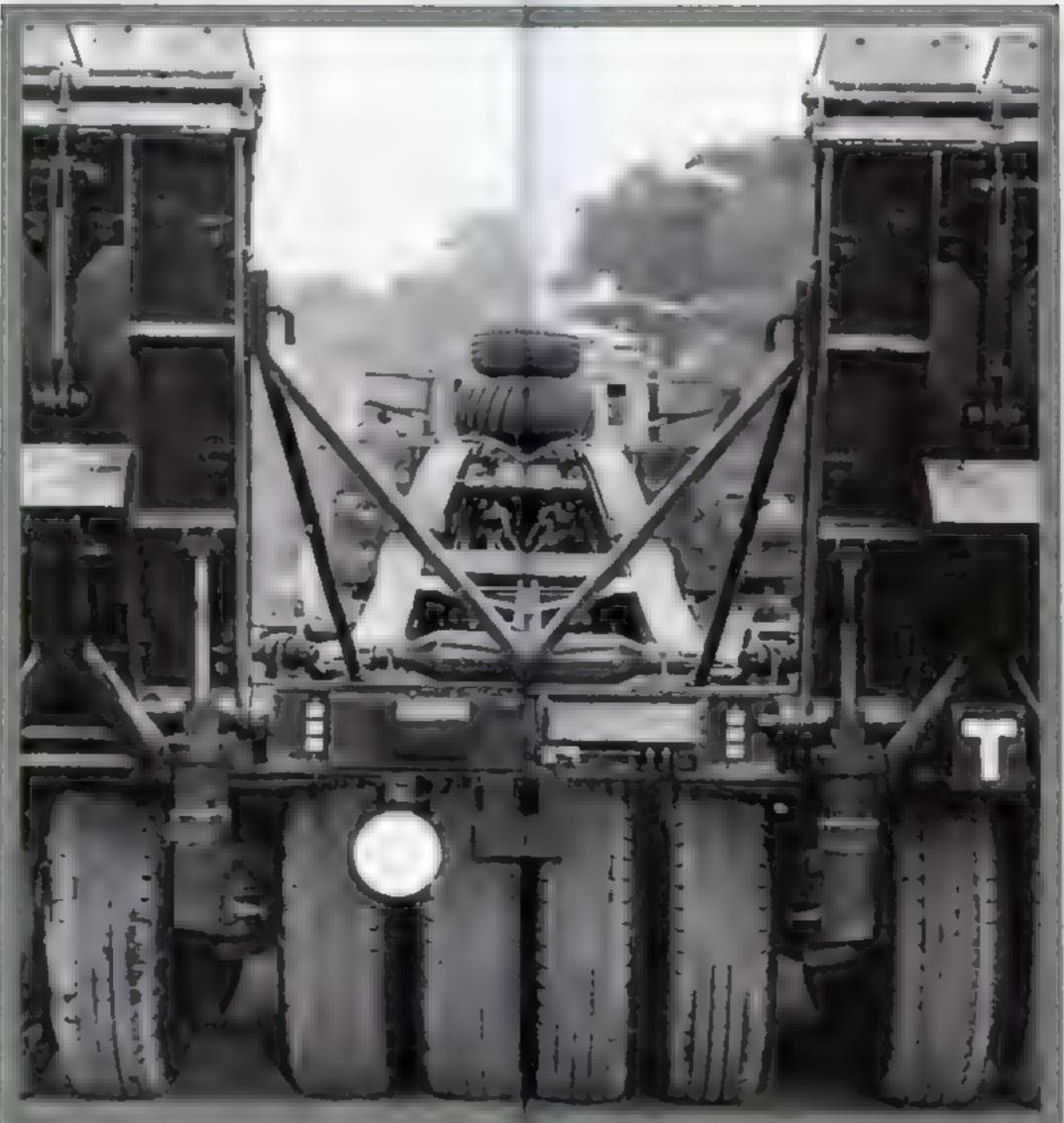
• Mk 2 fifth-wheel tractor (FVI2002) with an empty FV3011 50-ton semi-trailer, possibly running light after delivering a new tank.



Rear view of a Mk 2 ballast-bodied tractor (FVI2003) of the Royal Netherlands Army



• Fifth-wheel Mk 2 (FV12002) hauling a Centurion FV4006 armoured recovery vehicle (ARV) on the FV3011 50-ton semi-trailer



● 8£LOW it's not entirely clear what is going on here but this Mk 2 fifth-wheel tractor (FVI2002), finished in an interesting striped camouflage pattern, is being recovered by a crawler tractor, and appears to have some engine or transmission parts stacked on top of the winch.



■ ABOVE Prototype for the FV300160-ton

early trials. The design of the ramps and

went into production.

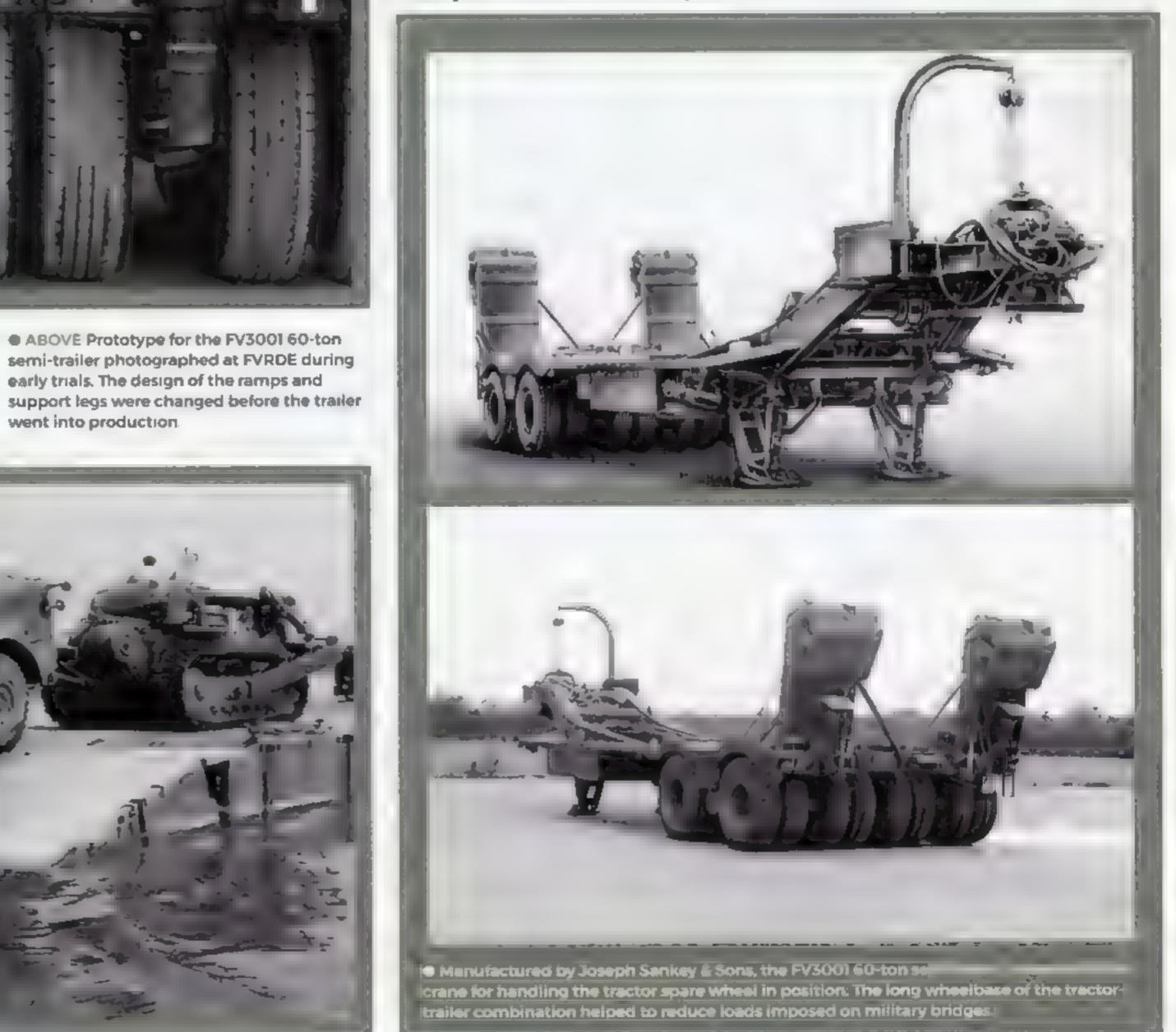
semi-trailer photographed at FVRDE during

EXHIBIT NO II & IR FA. 12002 EXHIBIT NO 11 4 18 TECHNICAL DATA Tractor 30 ton 6 x 4 G.S. (Thornveroft Antar) for Semi-Trailer Power Link Linguist Microsoftic Escy - period Transabales United or coupling Single plate Price displacement is office in the price of Ges has dispeed constant mesh Printed the speed Printed that a Halla Speed Antes First this my rea Rain D 64 op 49 feetern Indergonate Two Fuel System
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• Pages 32 and 33 of the catalogue handed to visitors at the 1956 FVRDE Exhibition of British military vehicles held at the Chertsey site.



FACTS & FIGURES - MK 2, FV12002 AND FV12003 ANTARS

FV12002 (fifth wheel)		FV12003 (ballast body)	
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2501shc	136KW	· · · · · · · · · · · · · · · · · · ·	186kW
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The much-improved Antar Mks 3 and 3A (FV12004, FV12006) make their debut

The War Office had always wanted the Antar to be powered by a diesel engine, and trials had already been carried out back in 1956, comparing diesel-engined tractors with the standard petrol-powered Meteorite. One was fitted with a Rolls-Royce C6SFL supercharged six-cylinder diesel engine, the other with an experimental Meteorite modified to run on diesel. But, the die was already cast, and, in the end, it was the Rolls-Royce C8SFL eight-cylinder unit that was chosen for the Antar Mk 3.

n early 1958, after production of the Antar had been halted for 10 months, the first Mk 3 was submitted for reliability trials. The use of the standard Thornyeroft cab of the period, coupled with a narrower nose, made it look different from the Mk 1 and Mk 2. But the major changes were under the bonnet, where the new diesel engine was coupled to a simplified six-speed

transmission designed to improve economy and performance.

Drawn from the Rolls-Royce 'C Range', the C8SFL was a watercooled supercharged straight-eight power unit, producing a gross 333bhp (248kW) from a capacity of 16.2 litres. The supercharger was a Roots blower unit, and the fuel was injected directly into the combustion chambers. The

torque characteristics of the diesel engine allowed the transmission to be redesigned and simplified, using a combined main and auxiliary constantmesh gearbox with just six forward speeds controlled by a single changespeed lever. Sixth gear was an overdrive.

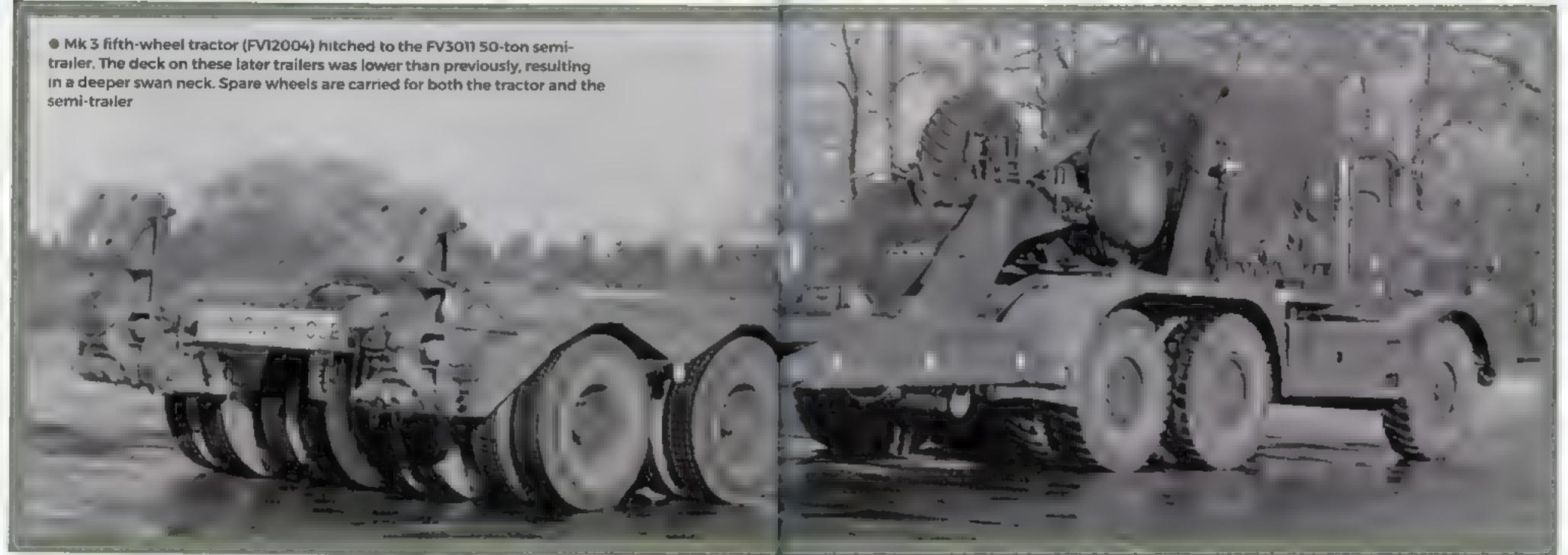
The suspension and braking systems were largely unchanged, although the power-steering system was redesigned



 Bulled-up and shiny ready for display at the 1963 Commercial Motor Show, this Mk 3 Antar (FVIZO04) shows how the new cab and front end brought aesthetic improvements, rendering a generally more modern aspect to the tractor. As befits its status as a show vehicle, this tractor has been fitted with non-standard chromium-plated grab rails, and has been polished to within an inch of its life!

to improve assistance at slow speeds, and the inter-axle differential was fitted with a manual lock. The engine was fitted with a Clayton Oetiker exhaust brake that assisted with slowing the vehicle on down grades.

Constructed from twin-skin insulated pressed-steel panels, the new cab was similar to that used on other Thornycroft products of the period, albeit in this case it was widened by the insertion of additional sheet metal in the centre. The twin radiators that were such a distinctive feature of the Mk 1 and Mk 2 Antars were replaced by a single unit that allowed the nose to be narrowed. There was a degree of mis-matching where the bonnet met the scuttle, but overall the appearance was considerably improved. The front wings were similarly redesigned, with flat front and top panels, the latter



being fitted with strips of treadplate to provide a platform that would improve access to the engine compartment. Early production vehicles, or it may just have been the three prototypes, had fixed glazing to the windscreen; on later vehicles the windscreen was divided horizontally, with a small opening section at the bottom.

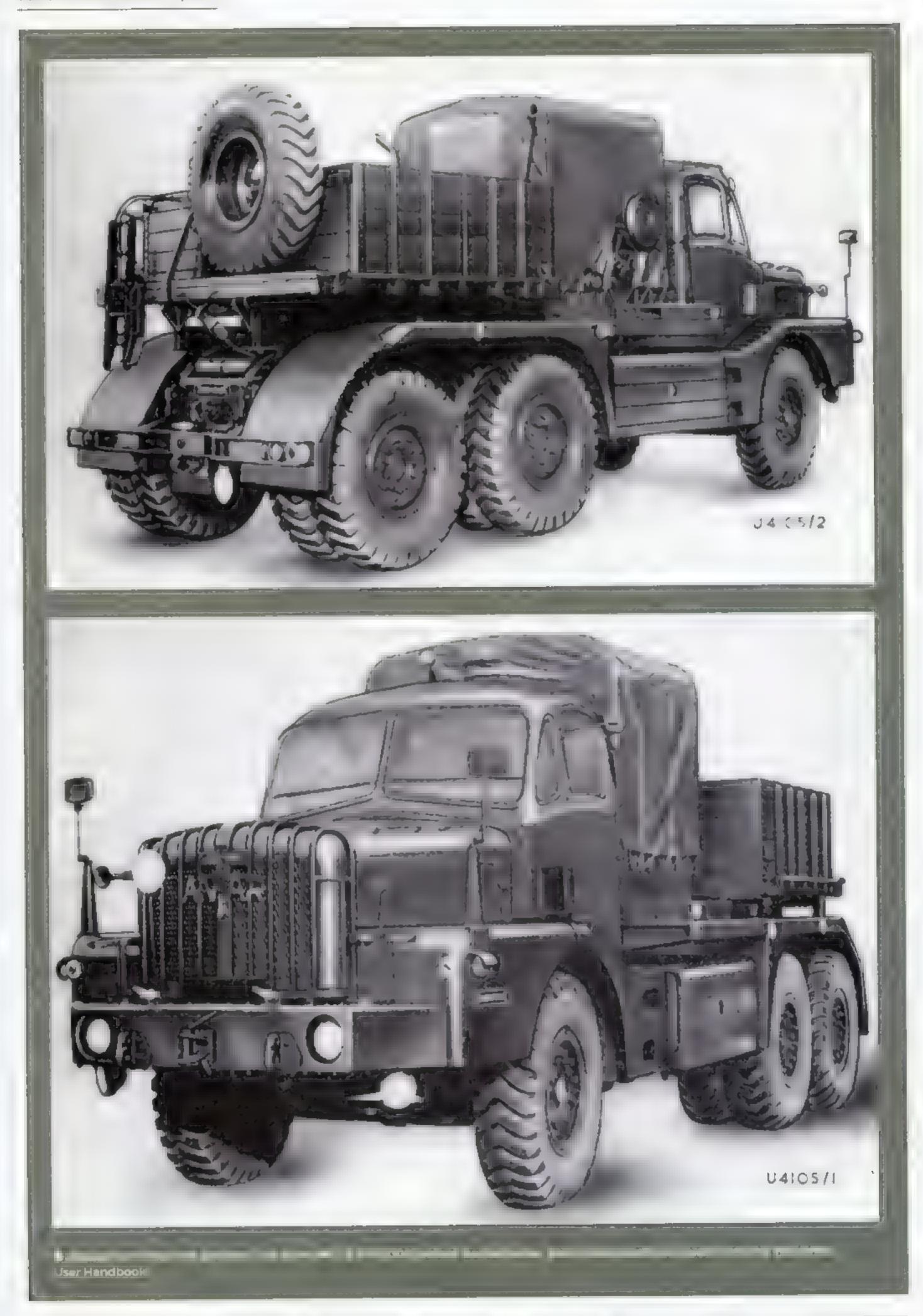
On most examples, a circular hatch in the cab roof, normally provided with a canvas cover, allowed the passenger to operate an anti-aircraft machine gun,

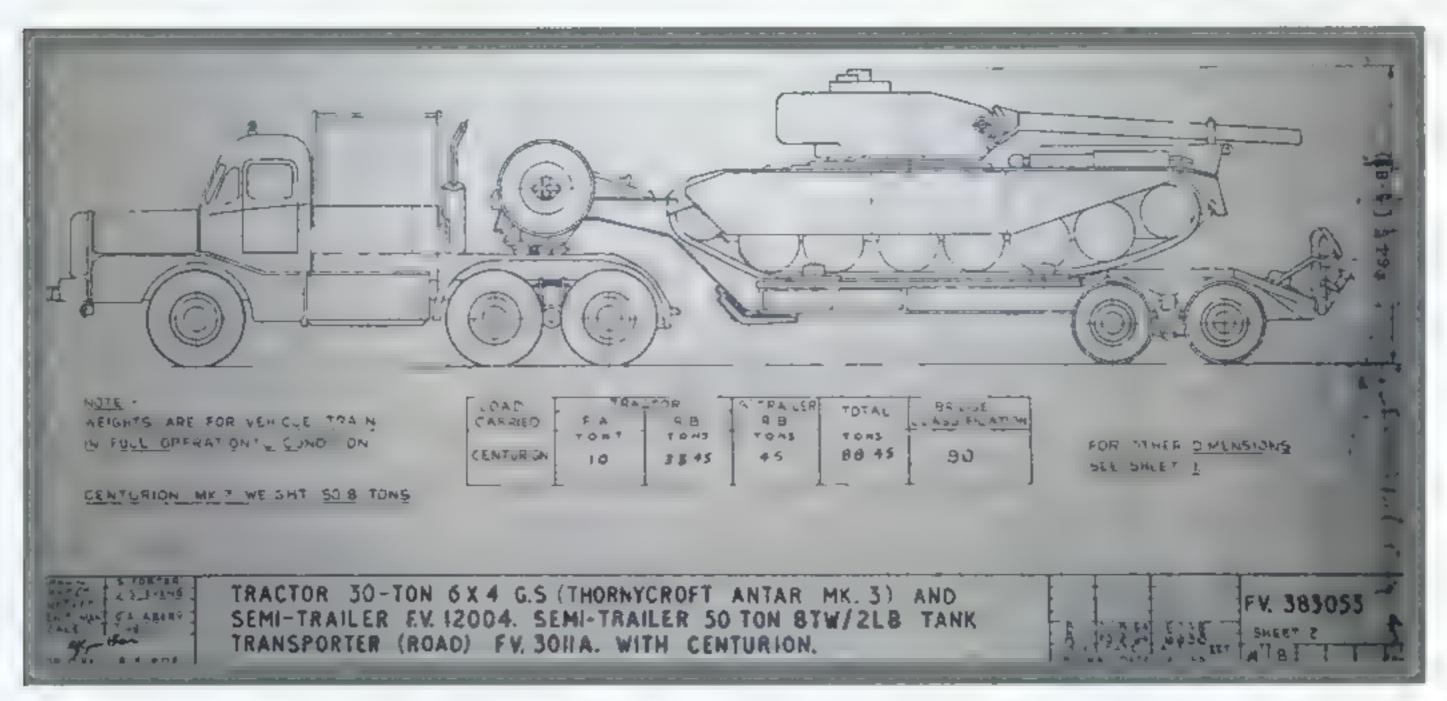
A 20-ton Turner winch was installed behind the cab and was chain-driven by a power take-off on the gearbox. A

 Factory-fresh Mk 3A ballast tractor. resplendent in its coat of Deep Bronze Green (shade 224, B\$ 381C) gloss paint; once in service, some vehicles were subsequently over-painted with NATO matt green sometimes with a disruptive camouflage pattern.









• FVRDE outline drawing showing the dimensions and weights of a loaded Mk 3 (FV12004) Antar together with an FV3011 semi-trailer carrying a Centurion Mk 7 tank.

tubular steel framework was installed over the winch, and was supplied with a covering tarpaulin to provide weather protection for the winch itself, and overnight accommodation for the crew. Ballast tractors also carried a spare wheel, together with handling gear, either behind the cab or in the ballast box.

Work on building three prototype Mk 3s had started in July 1957, with the first example delivered to FVRDE in March 1958 for trials. The truck was run for around 11,000 miles (17,500km) and a report was issued at the end of the year, listing some 21 relatively minor points that needed attention. Most notable, however, was the tendency for the

transmission and axle oils to overheat, a problem which had first been noted with the Mk 1, but which had never really been solved. High-speed running exacerbated the problem, with the oil of the Mk 3 overheating after just one hour of running at full speed. Eventually, a modified axle was developed which minimised the problem.







• Impressive line-up of Mk 3 R6 or R8 Antars at the Thornycroft factory. These are not intended for the British Army, and it is not known why the front NATO hitch has been removed in every case; logic would suggest that it is something to do with shipping.



• Photographed outside the Wolverhampton works of the Turner Manufacturing Company, this Mk 3 Antar, was originally registered RGX 983 and was assigned to FVRDE at Chertsey; it was subsequently renumbered as 61EP10. Although the winch is in the normal position, it appears to be fitted inside a non-standard box-like enclosure.

Notwithstanding the problems encountered during the trials programme, the Mk 3 was better in almost every respect. The top speed was improved by almost 20% and the fuel consumption was reduced to a far more sensible figure.

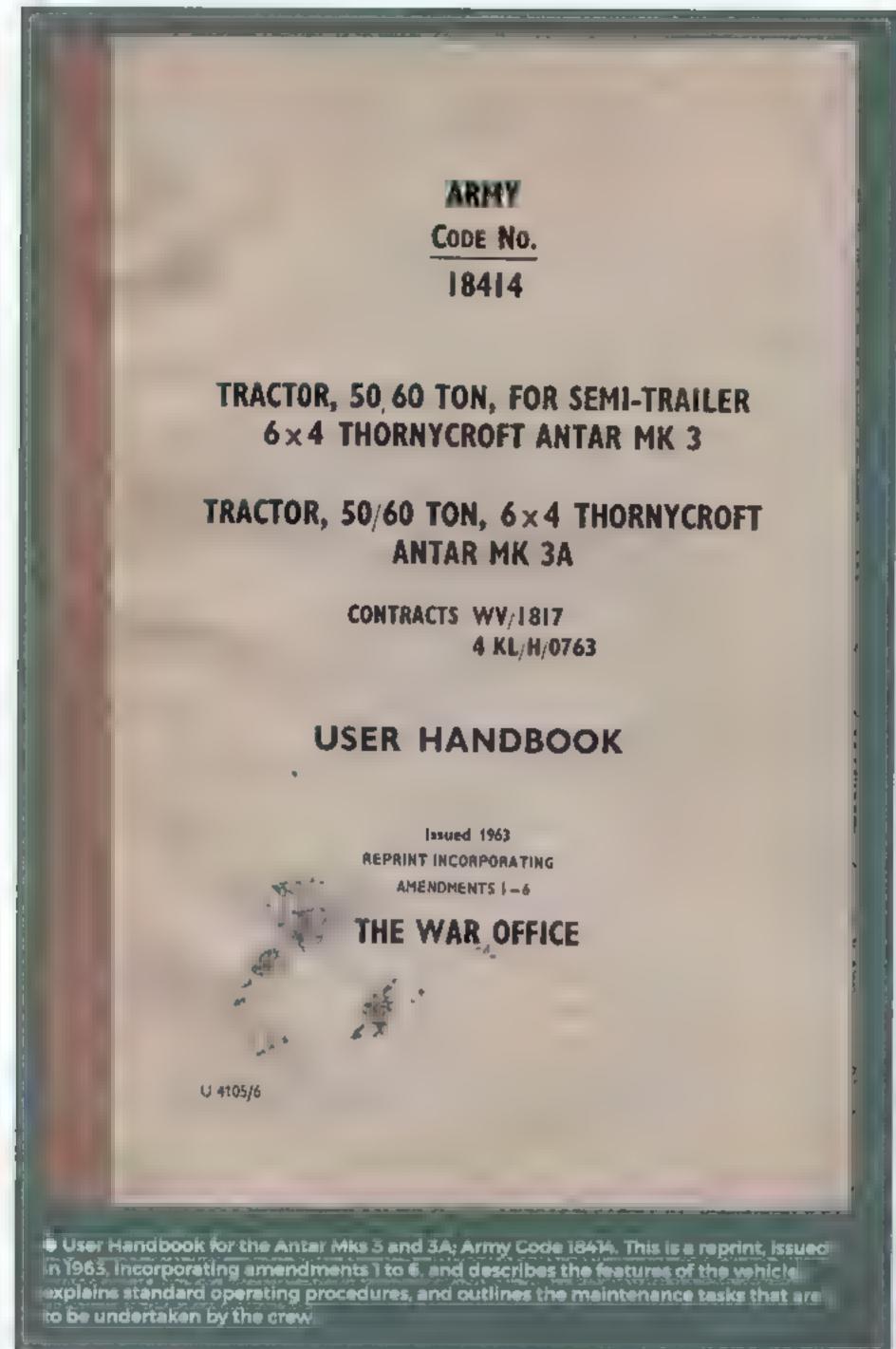
Production started in April 1961, and the first Mk 3 to appear was the fifth-wheel variant, designated FV12004. This was soon followed by the Mk 3A ballast tractor (FV12006), fitted with a removable steel-framed wooded ballast box. All Mk 3 and 3A Antars were fitted with a fifth wheel, regardless of whether or not there was also a ballast box.

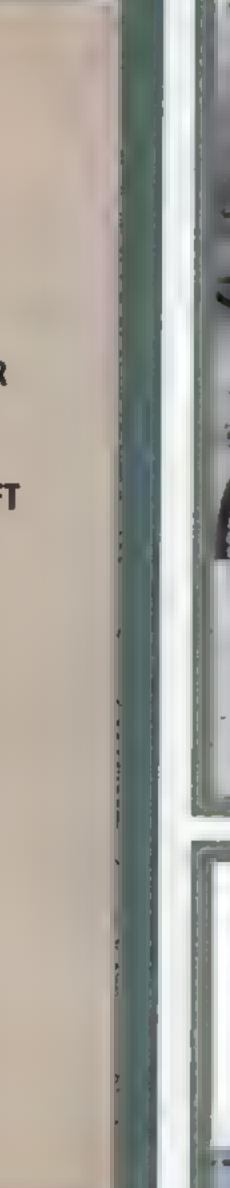
Trials carried out in 1961 showed that the earth-mover tyres that had been fitted to Antars since the first Mk 1s were not really suitable for continuous high-speed running. FVRDE announced that it would investigate suitable alternatives and the War Office user handbook dated 1963, describes the tyres as 20-ply 'cross country'

FVRDE Exhibitions

The Mk 3 Antar was displayed at the FVRDE exhibitions in 1962, 1966, 1971 and 1981, complete with the appropriate trailers.

ANTAR MKS 3/3A









 Rear three-quarter view of the Mk 3 tractor destined for Earl's Court and the Commercial Motor Show in 1963.

Both the Mk 3 and the Mk 3A were fitted with a fifth wheel, meaning that the ballast box could be easily removed to convert the vehicle from one configuration to the other

Refurbishment

In the late 'seventies, by which time most of the Mk 3/3A Antar fleet was nearing 20 years in service, every British Antar, regardless of whether it was located in West Germany or the UK, was shipped to Liverpool for refurbishment by the Fazakerley Engineering Company Limited.

Based at the former RAF Fazakerley and using workshops and equipment still owned by the Ministry of Defence, the company painstakingly stripped each tractor to its major components before repairing or replacing as necessary and then reassembling the truck to a condition which was said to be better than new. Engines were

either overhauled at Rolls-Royce, or refurbished at Fazakerley. At the end of this process, which took 12 weeks of workshop time for each vehicle, the truck was put through a 60-mile (100km) test using steel tanks - not the military kind! - filled with sand to simulate the weight of a Chieftain tank. The test route chosen by the company for these trials included a long uphill section on the M6 designed to simulate running on the German autobahns.

The Antar Mk 3/3A remained in service with the British Army until 1986-87, by which time tank-transporter duties had been passed to the Scammell Commander.

ANTAR MKS 3/3A ANTAR MKS 3/3A





● Equipped as a fifth wheel tractor, 12DM24 was one of a batch of 150 vehicles supplied in 1961 under contract KL/H/0763.





ANTAR MKS 3/3A



Production

The total production of the Mk 3/3A Antar for the British Army is believed to be 218 or more.

Registration numbers

The following registration numbers were issued to Mk 3/3A Antars:

16CL78

11DM93-13DM42

50EK30-50EK84

60EP54-59

28ES11-28ES12

At least two Antars Mk 3 were assigned to FVRDE, where they were registered RGX 983 and CYY 725C.

Trailers

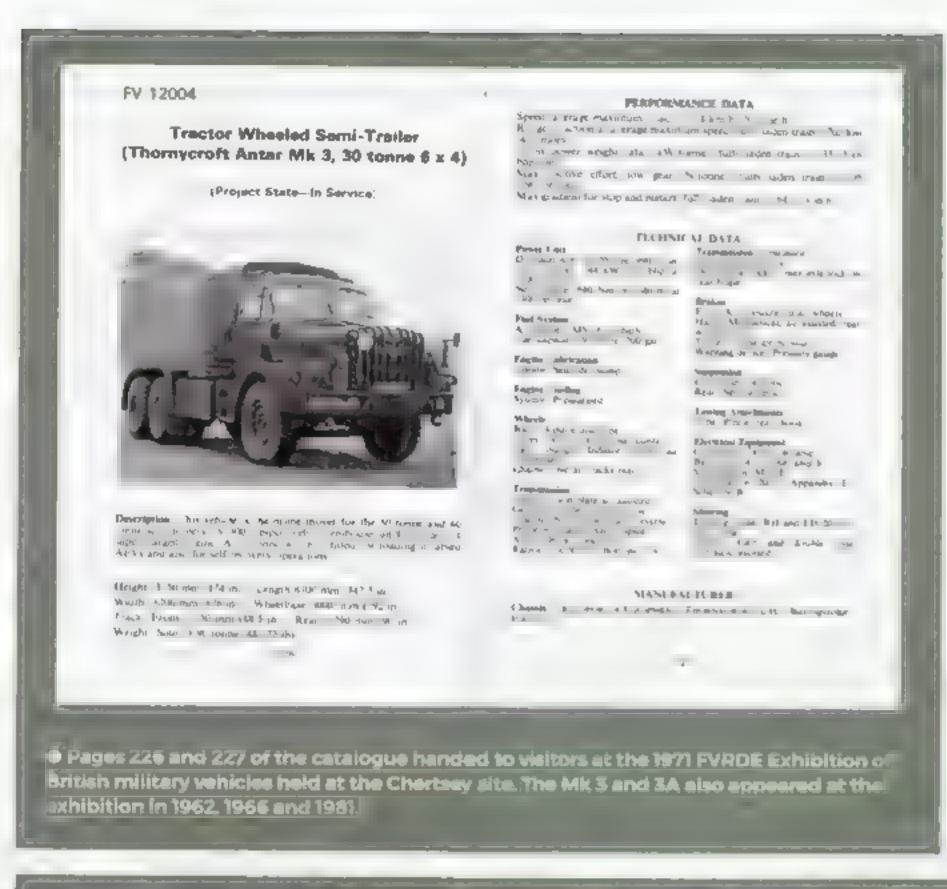
The FV12004 tractor was equipped with a fifth wheel for use with the FV3001 60-ton semi-trailer, or the later variant, which was designated FV3005; it was also possible to couple the tractor to the FV3011 50-ton semi-trailer.

Like the Mk 1 and Mk 2 tractors, the FV12006 was generally coupled to the FV3601 50-ton drawbar trailer, which survived in service into the early 'eighties.

Experimental engine

In 1957/58, perhaps in a bid to save money, automotive trials were conducted at FVRDE with a pair of Antar tractors powered by an AEC AVT1100 diesel engine, producing 253bhp from a capacity of 17.75 litres. The tractors that were constructed to trial this engine should have been described as a Mk 2.5... with the narrow nose of the Mk 3, a chassis that had been elongated by about 12 inches (305mm) at the front and a bonnet to match, combined with the more perpendicular cab, and the rounded front mudguards of the Mks 1 and 2. On at least one of the trials vehicles, there were huge twin air cleaners positioned on the left-hand front mudguard.

The engine had been developed for use in heavy traction duties, for example in plant or large dump trucks which had made the War Office curious as to whether it would provide a suitable





• The front end of the AEC-powered tractor appears to be complete but the rear has yet to be finalised; there are no mudguards, stowage lockers or fuel tanks... or is it simply that there were two prototypes?



ANTAR MKS 3/3A

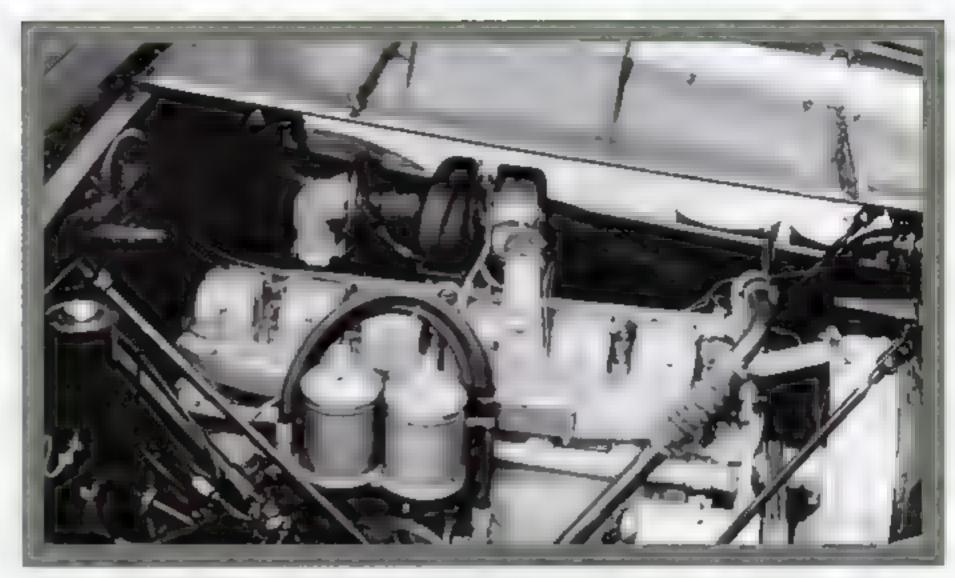
power unit for the Antar Mk 3, at a considerably lower cost than either the Meteorite or the Rolls-Royce C Series.

At the end of the trials, FVRDE concluded that the engine had performed well, and would be at least equal to the Meteorite in day-to-day running. The maximum speed, loaded, was 28mph (44km/h), but the torque characteristics were an improvement on the petrol Meteorite. Unfortunately, high noise levels in the cab, at anything more than moderate engine speeds, were said to be very tiring to the crew.

No further action was taken. The trucks hung around Chertsey for some years, being finally disposed of in 1971, and the report of the trials was not published until 1963.

Commercial Antars

It is worth remembering that the Antar was not originally envisaged as a tank transporter and throughout the production life of the vehicle examples continued to be sold to oilexploration companies, and to civilengineering customers or others who had large or oversized loads to shift. Most commercial Antars, as well as those tractors supplied to the armies of other nations, were little more than a simplified, or de-militarised, version of the standard tank transporter .. or perhaps it might be more honest to state that the Antar tank transporter was little more than a militarised version of the original civilian machine!



AEC AVT1100 17 75-litre diesel engine fitted under the extended bonnet of the hybrid Antar. In
use, at anything other than moderate engine speeds, the engine proved to be very noisy.



 Side elevation shows the extended nose necessary to house the AEC engine, married to the rounded front mudguards and perpendicular cab of the Mk 2.



• Standing side by side for comparison, the standard Antar Mk 3 (FV)2004) fitted with the eight-cylinder Rolls Royce C8 engine, compared to the hybrid tractor powered by an AEC AVTI100 six-cylinder engine.



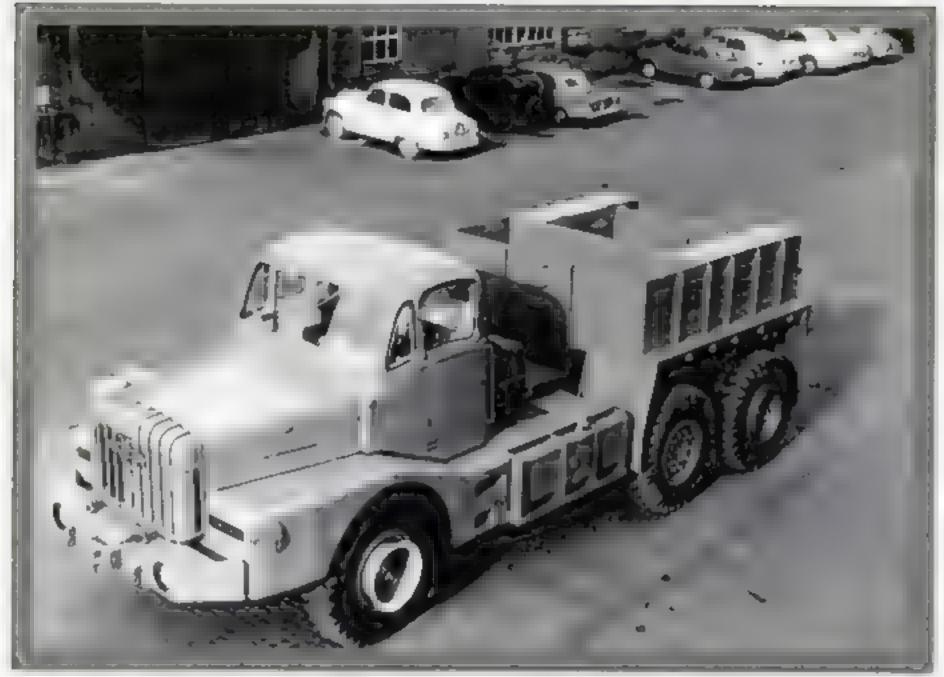


 There was no room for the twin air cleaners under the bonnet, nor was there space under the front mudguard... which was where the air cleaners were placed on the standard Mk 3/3A tractors. The only space left was on the left-hand front mudguard.

However, be that as it may, by the time the Mk 3 appeared, a number of engine options were also being made available. The standard British Army engine was the Rolls-Royce C8SFL; other engines available included the Rolls-Royce C6T, a six-cylinder turbocharged unit producing a gross 300bhp (223kW), and the C8T, an eight-cylinder unit producing 450bhp (335kW) gross. Tractors fitted with these engines were identified as the Mighty Antar R6 or Mighty Antar R8, with a simplified version omitting certain features, described as the R8S

 Head-on view of the Mighty Antar R6 tractor supplied to the RAF under the registration number 40AT81 Like all Antar R6 tractors, the vehicle was powered by a Rolls-Royce C6TFL six-cylinder turbo-charged diesel engine driving through a four-speed main gearbox and three-speed auxiliary box, and lacked many of the military details of the standard Antar,

ANTAR MKS 3/3A ANTAR MKS 3/3A



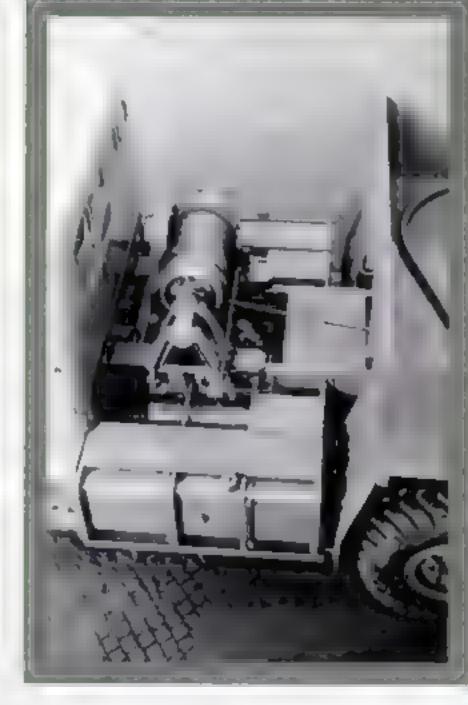
• Commercial Mighty Antar R8 tractor as supplied to AEI in 1959 intended for moving heavy machinery for a power-station project in Argentina. The R8 was fitted with a supercharged Rolls-Royce eight-cylinder C85FL engine, and retained the 12-speed transmission of the earlier models.



• Front three-quarter view of the AEI Mighty Antar R8; note the slinger rings on the front and rear wheels, intended to allow the vehicle to be lifted on board a ship.



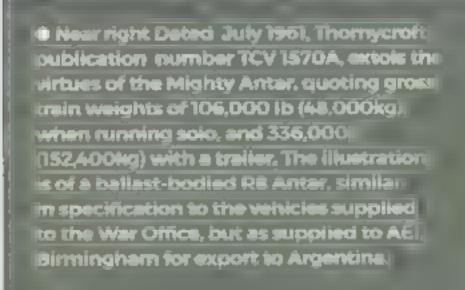
 Mighty Antar R6 or R8 tank transporter, one of a batch of tractors supplied to a Middle Eastern customer during 1960/61



 View of the Darlington type 70 winch on the AEI Mighty Antar R8

At least one C6T-engined Mk 3 was operated by the RAF at Cardington, under the registration number 40AT81, possibly designated FV12007. A further 38 tank transporter tractors, to a similar specification, were supplied to the armies of Burma (Myanmar), Kuwait, Pakistan and South Africa

Thornycroft also stated that, 'in special circumstances', they were willing to consider fitting other engines, including those of American origin.

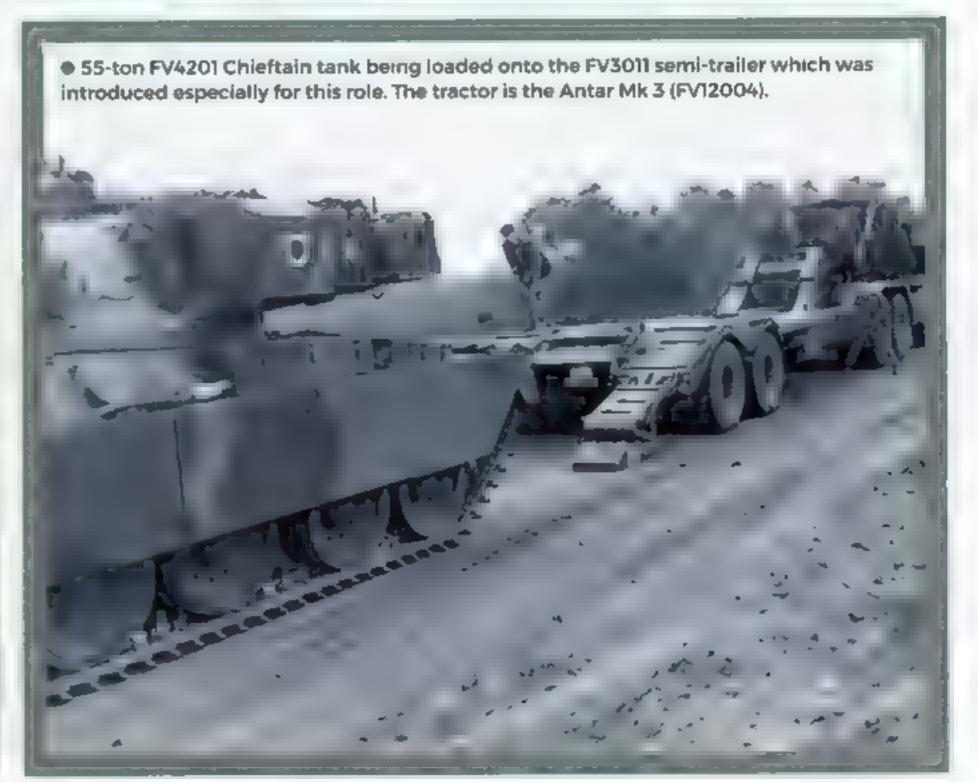


The ineide spread includes the original trace in Petroleum Company tractors, as well as a recipied in Accordance i

Towards the end of the 'fifties, a degree of confusion started to arise between the Antar and Big Ben model ranges, with the Thornycroft-engined MA/K6, MA/K6S, MA/KRN6 and MA/KRN6S chassis being marketed as Antars, alongside the Rolls-Royce engined Antar Sandmaster that was sold to Esso for service in Libya. These models seem to have been distinguished from the existing vehicles by the omission of the word 'Mighty' from the model name... although this was not much help to those more used to the military tank transporters which were generally always described simply as 'Antar'!







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FACTS & FIGURES - MK 3 & MK 3A, FV12004 & FV12006 ANTARS

FV12004 (fifth wheel)		FV12006 (ballast body)	
			990in
5,125 x 6in	130.21 x 152.4mm	5.125 x 6in	130.21 x 152.4mm
diesel oil		diesel oil	
3330hp	248kW	333bhu	248kW
313bhp	233kW	313bnb	233kW
934 lbf/ft	12664 vimn	934 lbf/ft	1266Nm
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CENTURION, CHIEFTAIN AND CONQUEROR

The Antar in service in West Germany, and Pembrokeshire!

For the first few years of their lives, the Antars were operated by the Royal Army Service Corps (RASC), but, in 1965, the functions of the RASC were divided between the Royal Corps of Transport (RCT) and the Royal Army Ordnance Corps (RAOC). From this date, until the formation of the Royal Logistic Corps in 1993, the task of moving tanks fell to the two Tank Transporter Regiments of the RCT

Transporter Regiment, was based in West Germany, forming part of the British Army of the Rhine (BAOR). The regiment was headquartered at Sennelager, and comprised three companies, identified as numbers 3, 16 and 617 Tank Transporter Squadrons.

In 1965, number 3 Squadron was stationed at Sennelager, and had two troops, each with 20 Antar/trailer combinations — 'trains' in army parlance. 16 Squadron was based at St Barbara Barracks, Fallingbostel, with three Antar troops, each consisting of 20 trains. And, finally, 617 Squadron, formerly 317 Squadron, was based at



 Mk 3 Antar tractor (FV12004), complete with FV3011 50-ton semi-trailer loaded with a Chieftain main battle tank. Supplied in 1963, under contract WV/3484, the tractor (28ES12) was possibly the last Antar supplied to the Army



Cromwell Barracks, Hamm, and was also equipped with three Antar troops and 20 trains. The latter was described as 'mixed service organisation' (MSO) indicating that it was a civilian arm of BAOR which employed displaced persons, largely Poles and other east Europeans who had either chosen not to return home after the end of WW2, or who were unable to return. The MSO crews acted as drivers, clerks, mechanics and guards.

During peacetime, the tank transporter squadrons were involved in regimental training and annual brigade and divisional exercises, often using either the training area at Soltau or the Bergen-Hohne ranges.

The role of 7 Tank Transporter Regiment was considered to be extremely important and daily figures were compiled relating to the availability of the total holding of 160 tank-transporter trains. Should the Cold War have turned hot, one of the first actions of the British Army deploying to war was the use of 16 Tank Transporter Squadron to move 48 AVREs (armoured vehicle Royal Engineers), together with operationallyrigged Centurion and Chieftain AVLBs (armoured vehicle launched bridge) from their base at Munsterlager into the General Deployment Plan (GDP) of 1 British Corps on the assumption that the Warsaw Pact forces would have destroyed river crossings. Once this task



was completed, the transporters would have returned to Sennelager to deploy the 'covering force' armour to forward locations. The transporters would have then moved westwards again to pickup and deploy the armour that would comprise the BAOR's main defensive force. If time was short, the armour would have already started to move from the barracks on its tracks.

Had these tasks been successfully completed, and, in the event of a serious 'shooting war', the tank transporters would also have been used to recover battle-damaged tanks. These would have been carried west to allow REME (Royal **Electrical and Mechanical Engineers)** workshops to repair them, before recycling them back to the front.

Number 19, later number 414, Tank Transporter Squadron was, and still is, based at Ward Barracks, Bulford Camp in Wiltshire, and until about 1964, was equipped with Diamond T tractors, before these were superseded by Antars. From 1961, a major part of the Squadron's role was to move tanks between Pembroke Dock and the Castlemartin training area in the Pembrokeshire Coast National Park. At the time, Castlemartin, which is one of a number of major training areas in the UK, was used by West German tank units for long-distance live firing as part of a NATO agreement which allowed the British Army to continue to use the Bergen-Hohne Training Area in Germany.





• Tank-transporter crews were often described as 'gypsies' on account of the amount of time spent away from base... and it's generally hard, dirty work. Spot the officer!

IN SERVICE



IN SERVICE IN SERVICE



Chess

An Antar was operated by a crew of two. The first man was in charge of the tractor, driving it and carrying out routine running checks and light maintenance. Classified as an army tradesman – described as 'driver tank transporter' – he would also generally stay with the vehicle whenever it was away from its home base. The second crew member looked after the trailer.

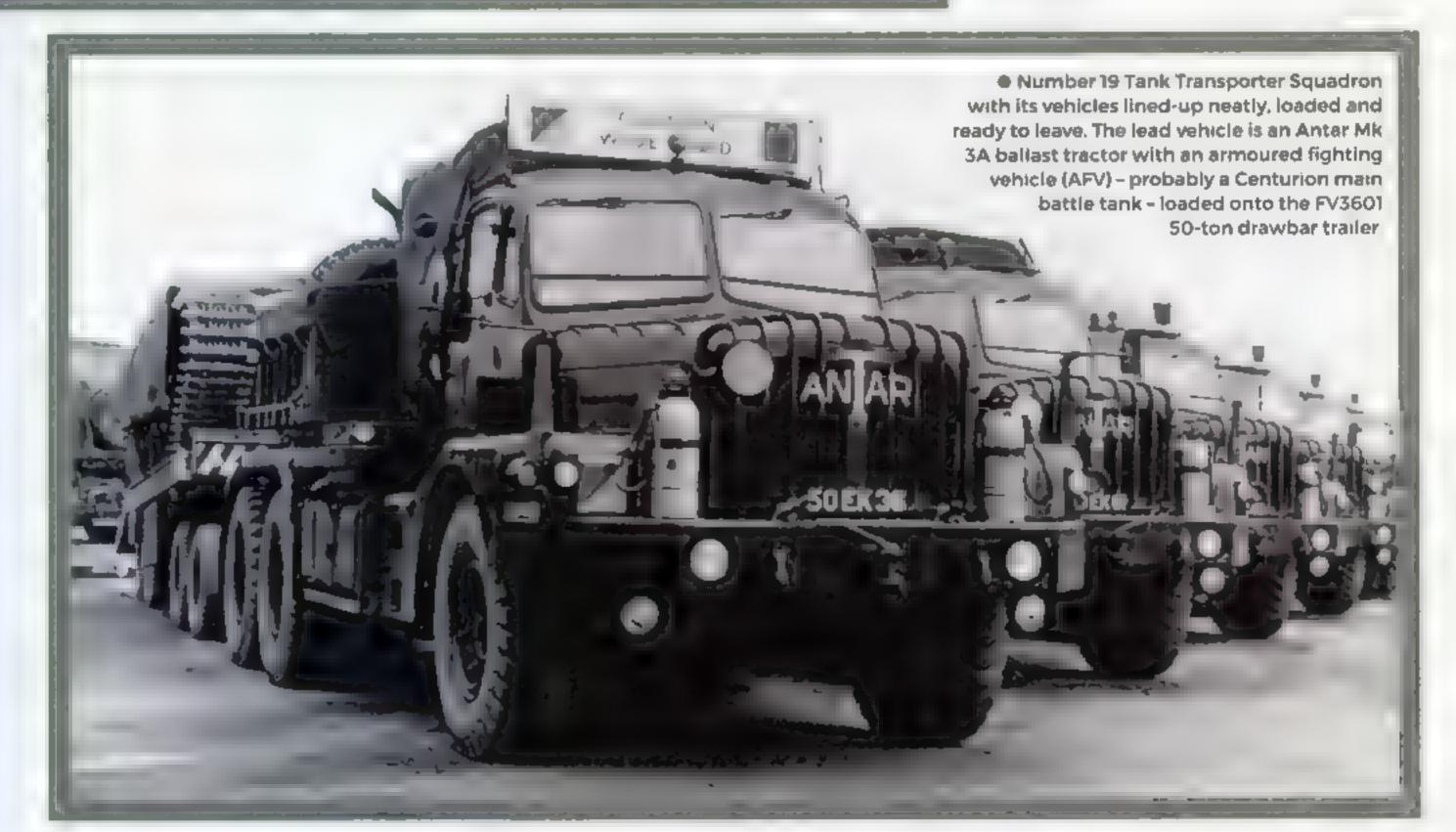
Antar crew members were expected to sleep with the vehicle overnight, and a simple tarpaulin-covered shelter was often erected over the ballast box or winch to provide temporary accommodation for the men.

Loading

Loading a tank onto a transporter is something of an act of faith. Once the tank has started to climb the trailer ramps, the driver cannot see the trailer, and must follow the hand signals of the man stationed on the swan neck. Any misalignment must be corrected by reversing off the trailer and trying again: attempting to manoeuvre the tank once it is on the trailer will generally result in disaster. To avoid this, the tank driver was often asked to keep his hands outside of the tank to show that he was nowhere near the steering levers.

Disabled tanks must be winched onto the trailer. This is not an easy task if





70 | MILITARY TRUCKS ARCHIVE 71

there is battle damage preventing the tank from moving easily. And, similarly, unloading a casualty means winching it off using a second tractor, with a degree of control provided by the first tractor's winch to prevent the tank from running away.

Once loaded, the tank would be securely lashed in position at front and rear using turnbuckles.

On the road the security of the load and the trailer ramps would be checked every two to four hours. At the same time, the crew were able to check such things as the trailer tyres, the wheel nuts, the electrical and airline jumpers, and the hubs for over-heating.

On the road

Any route along which a loaded tank transporter is to move must be thoroughly reconnoitred beforehand, with the load-bearing performance of every culvert and bridge noted, as well as heights, turning circles, and width restrictions or other obstructions.

Once on the move, it is impossible to underestimate how slow the Antars were. The Mk 1 and Mk 2 tractors were not able to exceed 30mph (50km/h) and took a considerable time to reach their top speed. The Mk 3/3A was better, but not by much, and none of the trucks could reach the legal minimum speed on German motorways when climbing a grade. Rearward vision was very poor and a downside of the size and weight - of the machine was the fact that the driver was often unable to feel any impact at the rear. It was not unknown for drivers of smaller, and faster vehicles to misjudge the slow speed of the Antar, to attempt to pull in behind, and to simply run into the back of the trailer... legend has it that at least three German civilian car drivers were killed in this way.

In West Germany, a convoy of Antars on the road, generally consisting of 20 trains, would be accompanied by one or two solo tractors, with one ballast-bodied tractor at the rear. In the event of a breakdown, the ballast tractor could be manoeuvred forward to clear the casualty to a safe place where the broken-down prime mover would be swapped for one of the spare tractors. A Land Rover would accompany the convoy, providing radio communications to the troop



Antar Mk 3A (FVI2006) tractor digs the rear wheels in as it drags a West German Leopard tank
up a shallow incline. The Leopard 1 tank entered service in 1965 and troops were trained in live
firing of its 105mm L/52 main gun at Castlemartin in Pembrokeshire.



• The Antar was not designed for off-road use, but Thornycroft claimed that the use of a lighter, undriven, front axie ensured that, when coupled to a loaded trailer, maximum weight was placed over the rear wheels where traction was required... nevertheless, this is not exactly what you would call rough going.



 One of the more unusual loads was two FV432 armoured personnel carriers, or others from the FV430 series, on a single 50-ton FV3011 semi-trailer



IN SERVICE IN SERVICE







commander, together with a REME aid detachment, consisting of tools and technicians. Four or five Triumph, or later, Honda, motorcycles would be used for traffic control.

Tyre blow-outs were to be expected on trailers - inevitably always one of the inner wheels - and, on at least the Mk 2 and 3/3A tractors a trailer puncture warning light was fitted in the cab. The trailers were provided with hydraulic jacks that were intended for steadying the trailer during the loading and unloading processes. The trailer jacks could also be used to lift the trailer to assist with changing a tyre... often, the road surface would not take the loading and the jack would punch a neat hole in the road, leading to a large bill for repairs from the local authority!

Road accidents with Antars were not common, but occasionally a driver might fall asleep at the wheel, or the edge of the road might give way and tip the trailer over... sometimes taking the tractor with it. Recovery was not an easy task, and generally involved using another Antar as a recovery tractor.

Dummy recovery axie

One of the drawbacks of the size and weight of the Antar was that it was

too heavy for any military recovery vehicle of the period to accommodate on suspended tow. In an effort to get around this problem, work started at Thornycroft in the early 1960s on the design of what was described as a 10/30-ton dummy axle recovery unit. Designated FV3561, the unit enabled one Antar to provide a suspended tow to another.

The unit consisted of a towed A-frame with a single unsprung axle, running on a pair of twin wheels; a girder crane mounted on the frame allowed a vehicle casualty to be hydraulically lifted at the front and secured on the A-frame. A small petrol (later, diesel) engine was provided to operate the hydraulic lifting system, and a towing eye was provided at the front end of the unit to allow the trailer to be coupled to a towing vehicle.

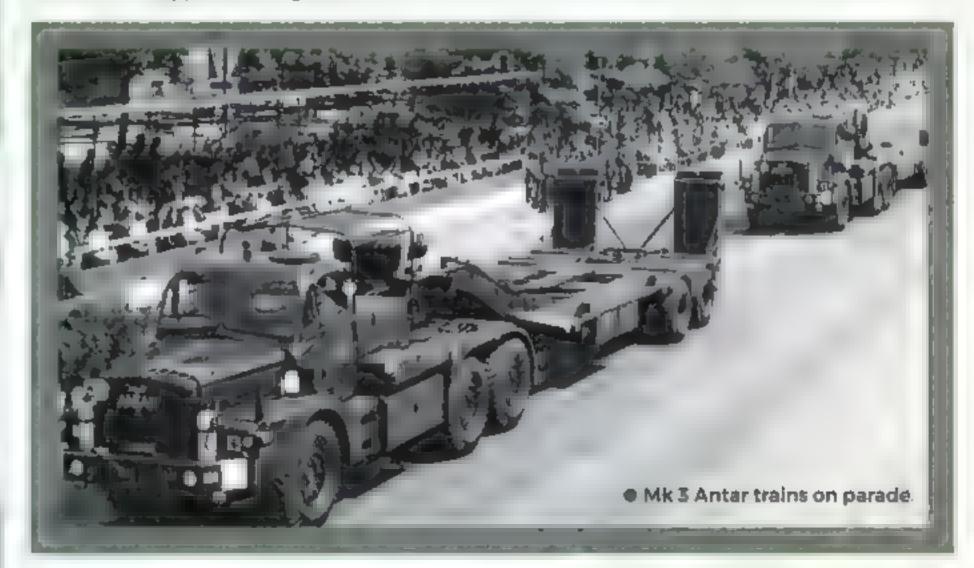
Although the prototype was shown at the FVRDE exhibition in 1966, when it was described as 'undergoing user trials', production did not get underway until 1971. Following the demise of Thornycroft in 1969, production passed to the Royal Ordnance Factory at Nottingham.







 Apparently brand-new Mk 3 tractor, finished in overall matt NATO green, 12DM36 was one of 150 tractors supplied during 1961.





 A convoy of tank transporters is a pretty awe-inspiring sight... the more so if you are on a bridge watching it pass, rather than finding yourself trapped behind it! The lead tractor is hauling a Centurion armoured recovery vehicle (ARV).









• Chieftain main battle tank on the FV3011 50-ton semi-trailer. The tractor is a Mk 3 equipped for fifth-wheel operation.



 Using the winch on an Antar Mk 3 to recover an overturned tank, a second tractor is being used as an anchor to steady the tank during the recovery operation.

IN SERVICE



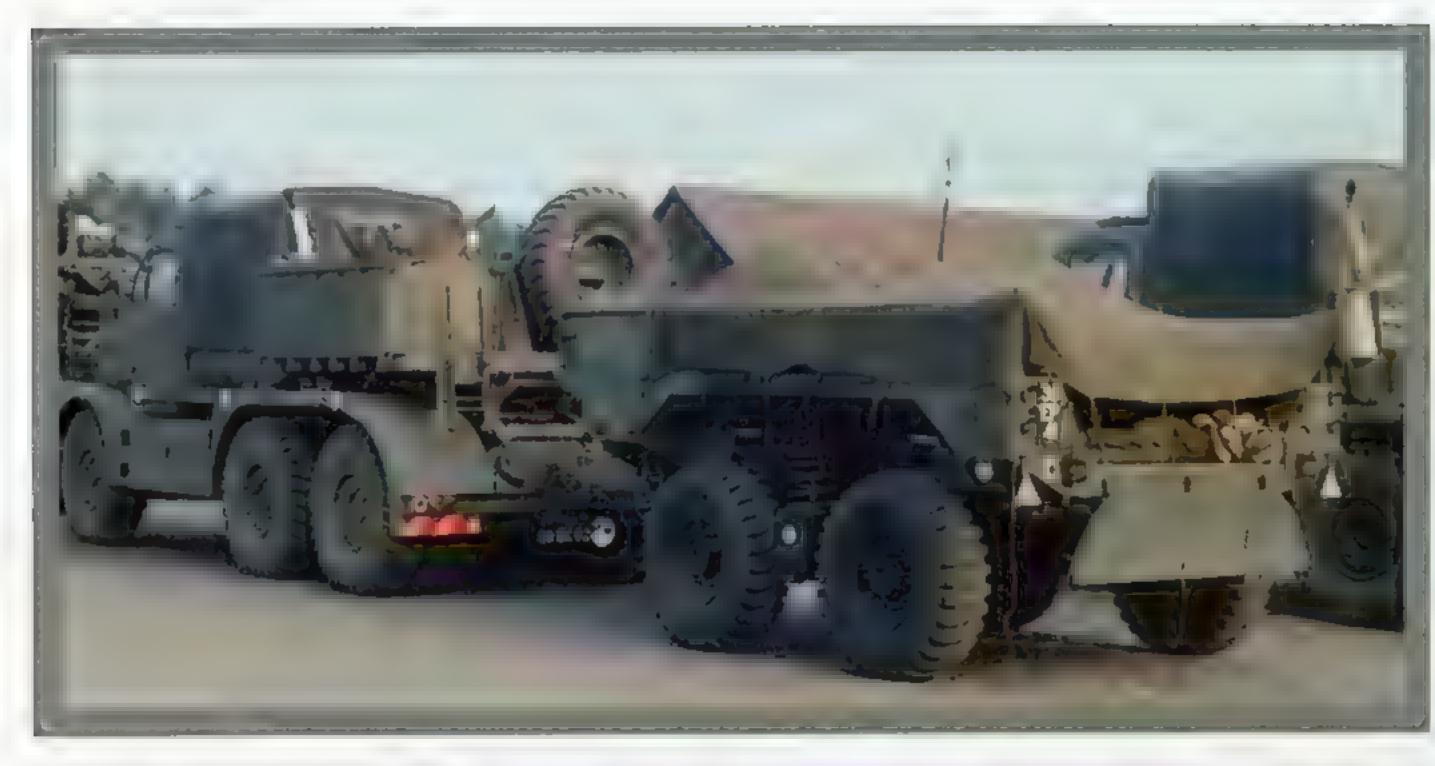




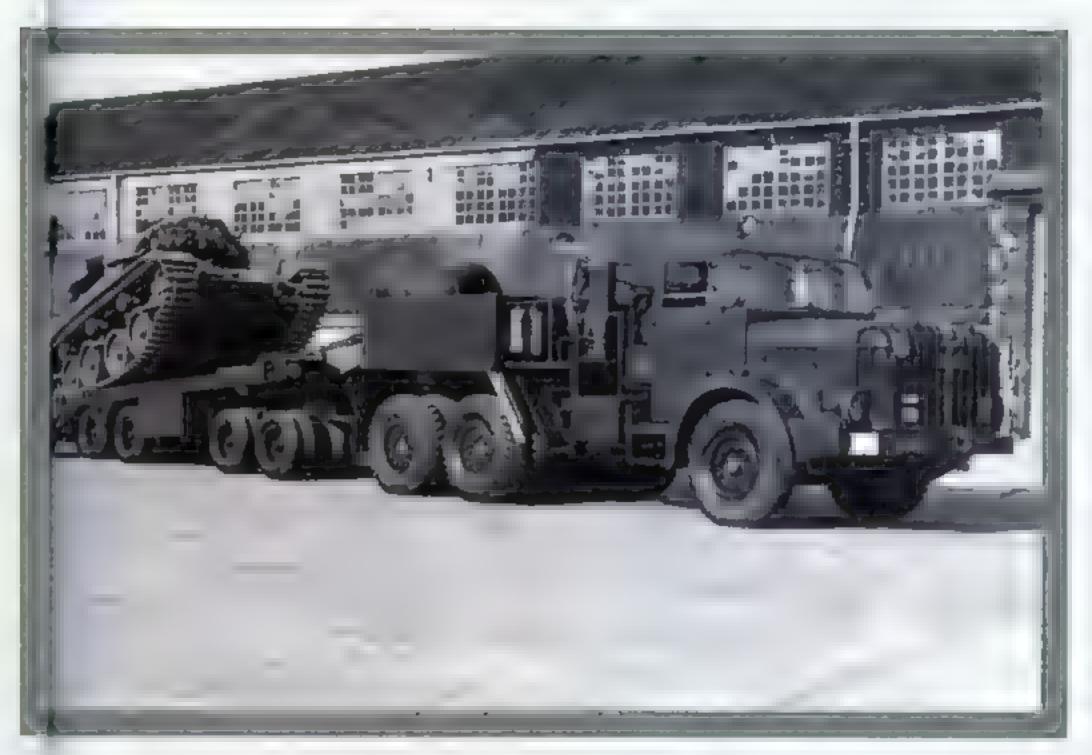
● ABOVE The Tucker Jib' eventually went into production, with a hydraulic winch and a small diesel engine, as 'dummy axle, 10/30-ton; FV3561' Early production was by Thornycroft, and latterly at the Royal Ordnance Factory, Nottingham.

• LEFT The 'Tucker Jib' was devised as a means by which one Antar could recover another on suspended tow. The equipment could be simply bolted to any tractor to provide a heavy recovery vehicle.





• Another unusual load was this FV2721 'trailer, 7 1/2 ton four-wheeled, Centurion, AVRE (armoured vehicle Royal Engineers)' two of which could be carried by a single Antar Hopefully, the occupant of the trailer will wake up before the convoy starts on the exercise



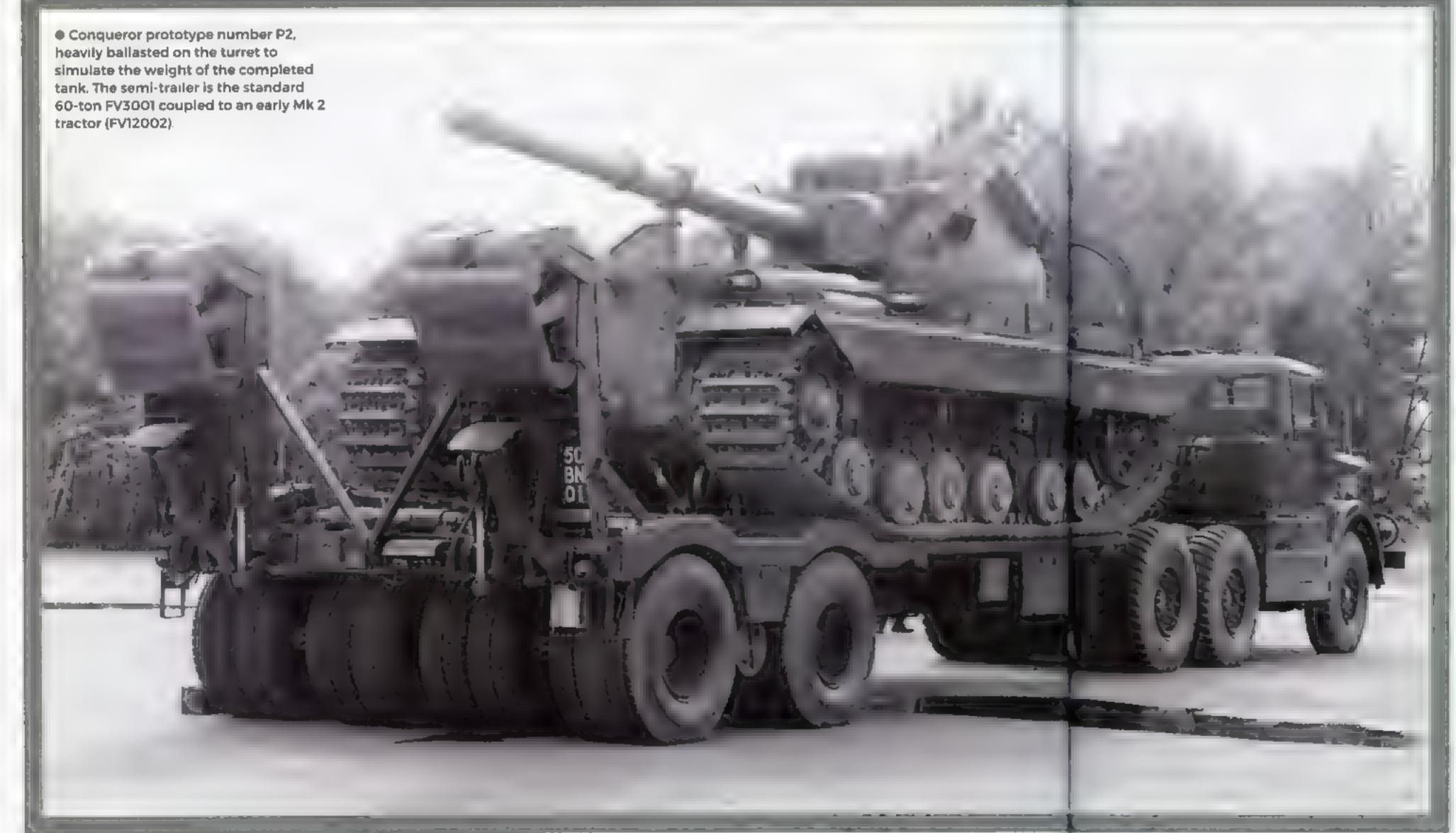
 Centurion Mk 3 main battle tank being winched onto the FV3601 50-ton drawbar trailer. The tractor is one of the original Antar Mk I vehicles (FVI2001) with a steel ballast body

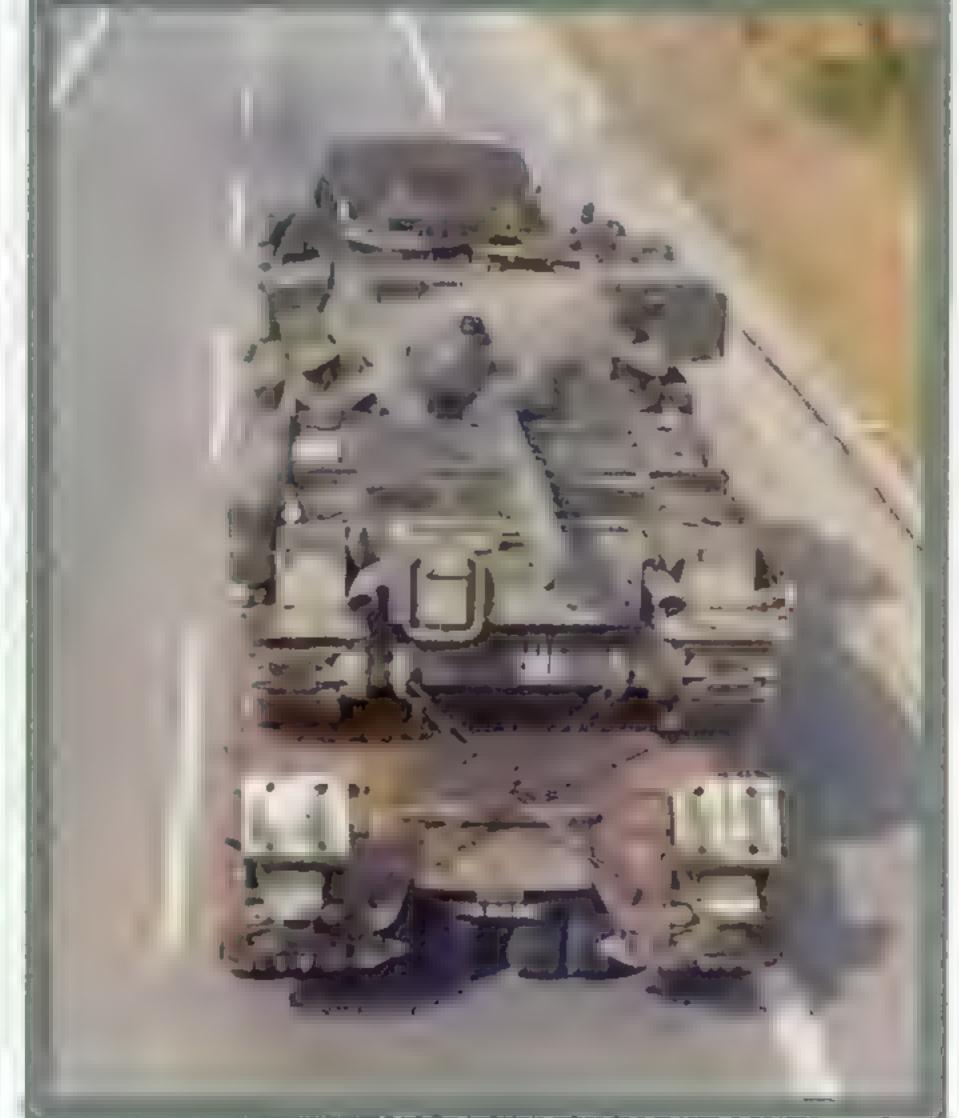
The equipment was made obsolete by the introduction of heavy-duty hydraulic recovery vehicles at the beginning of the 'eighties.

The end is nigh...

In Britain, the last Antar left Ward Barracks at Bulford Camp, the home of 414 Tank Transporter Regiment, on 30 January 1985. Loaded on the trailer of a Scammell Commander it was en-route for disposal at British Car Auctions.

In Europe, the last Antar in the British Army was a Mk 3 tractor decommissioned from 617 Tank Transporter Squadron that was demobbed on 31 March 1987. In line with Regimental policy the vehicle was put on permanent display at the Squadron's home base. The tractor has been named 'The Wladyslaw Paterek' after the much-respected father of the tank transporting MSO, who retired in 1987 after 40 years' service.





On the road again... Antar, trailer and Chieftain tank!

TYPICAL ANTAR LOADS

Vehicle:		Description	Date into service	Notes		
Gun tanks						
Caernarvon	5 8 8 3	المراب كورودة المراود والمراود والمراود	(A) Real	المراجع في المال الم		
Centurion	3, 18 8.	main battle tank; 17 pounder 20 pounder, 105mm gun	1945			
Charioteer	2 7 3	tank destroyer; 20 pounder gun	1952			
Chieftain	2 (.A.a.	main battle tank; 120mm gun	1959			
Ehurchill	3.8	infantry tank; 75mm, 95mm	1941	WW2 relic		
Comet	4.5	cruiser tank; 77mm gun	1944			
Conqueror	2 / 3	heavy gun tank; 120mm gun	1948			
Conway		tank destroyer, 120mm gun	3950	trials only		
Engi nee r tanks						
Centurion ARK		armoured ramp carrier	7° 4			
Centurion ARV	/Printle	armoured recovery vehicle	7-			
Centurion AVRE		armoured engineers vehicle	Name of Street, or other teachers			
Centurion BARV		beach armoured recovery vehicle				
Centurion bridge layer		armoured vehicle launched bridge	Table 1			
Centurion dozer		armoured buildozeri				
Chieftain ARRV		armoured repair and recovery vehicle				
Chieftain bridge layer		armoured vehicle launched bridge				
Churchill ARK Mk 2		armoured ramp carrier				
Churchiii AVRE		armoured engineers vehicle				
Churchill flau		mine clearance		training only		
Conqueror ARY		armoured recovery vehicle				
Sherman BARV		beach armoured recovery vehicle				
Artillery						
Abbot		self-propelled gun; [05mm]				
Archer		itank destroyat; 17 pounder				
M107		self-propelled gun; 175mm				
M109		self-propelled gun; 155mm				
MIIC		self-propelled gun; Sin				
Sexton		iself-propelled gun; 25 pounder				
Other vehicles						
AVRE trailer	FVZ7Z	Itrailer, cargo, Z 1/2 ton, 4 wheeled		loaded two up		
FV430 series	FV432. etc.	ermoured personnel carrier, command post, etc				

 US Army 175mm M107 self-propelled gun, loaded onto the FV3011 semi-trailer and coupled to a Mk 2 fifth-wheel (FVI2002) Antar tractor. The M113 gun was a powerful



The Antar in preservation

If you need to ask, the answer is almost certainly a resounding 'no' The Antar is huge... as an example, the Mk 3/3A measures up at 342in (8693mm) in length, 126in (3200mm) in width, and is 122in (3098mm) to the top of the cab. And that's before even considering that the beast weighs around 23 ton (23.4 tonne) in its stockinged feet! Nevertheless, a handful of Antars have survived in private hands, some with museums and others with enthusiasts... one example has even had a Rolls Royce Eagle diesel engine shoehorned under the bonnet in place of the original petrol engine, giving considerable improvement in top speed.

ome amazing work has been done in restoring Antars to better than new condition, but don't underestimate the size and weight of the components... you will also need some serious tools, and, just to add to the pain, parts are not going to be easy to find.

Nor, for that matter, underestimate the difficulty of actually finding an Antar for sale. The number in private hands - as opposed to being in museums is very small, but, there are certainly examples of all three marks. And, on the plus side, owning an Antar makes you a member of a small and exclusive club. Keep a close eye on www.milweb.net and consider joining the Thornycroft Register (www.thornycroft.org.uk).



 15.5 tons (15.78 tonne) of Antar Mk I with steel ballast body (FVI2001). This vehicle, now. preserved and forming part of the REME historic collection, is a regular on the show scene, and is one of just 15 supplied under contract 6/Veh/5718 in 1951





 Photographed whilst still in service ... this Antar Mk 2 fifth-wheel tractor (FVI2002) has a Chieftain main battle tank loaded onto the FV3001 60-ton semi-trailer... what more could you want?

Before you do anything else, find somewhere to keep it under cover... and then enlist the help of three or four likeminded friends who can act as a team to help with maintenance.

Legal issues

A little time spent browsing the various government sites on the internet amply demonstrates the difficulties of taxing and testing large, non-standard vehicles. However, it would appear that a privately-owned Antar can be registered and taxed in the taxation class 'private HGV' (tax class 10), with annual road tax of £165; see DVLA form 149.

The dimensions and weights of vehicles used on British roads are regulated by the 'Road vehicles (construction and use) regulations 1986', and the 'Road vehicles



• Powered by a Rolls-Royce C6 diesel engine, this Antar R6 tractor, ex-RAF (40AT81), was a regular at the bigger military-vehicle shows for many years.



• Antar Mk 3, complete with loaded semi-trailer, dwarfs the FV1801 Austin Champ. The Antar was one of possibly three tractors supplied under contract 6/Veh/27469 in 1959. The photograph is familiar to many by virtue of having illustrated the index to Bart Vanderveen's 'Wheels & Trocks' magazine.



● Big boy's toys.. Antar Mk 3 alongside the Rolls-Royce B81 petrol engined Leyland Martian artillery tractor (FVI103). One of just 60 similar vehicles, the Martian dates from the early 'fifties, and, like the Antar, was also produced in versions for the civilian market.



White-coated representatives of the Fighting Vehicles Inspectorate make detailed checks on a near-completed Antar Mk 3 tractor



Well-restored, privately-owned Mk 2 ballast-bodied tractor (FVI2003).



(authorised weight) regulations 1998'
According to the first of these two
documents, the maximum permissible
width for a vehicle on British roads is
normally 100in (2.55m). Any vehicle
larger than this, and an Antar tractor is
most decidedly wider than this, needs to
be accompanied by a pilot vehicle and to
display 'wide load' warning signs.

As regards weight, the heaviest Antar, solo, is in the order of 23 tons (23.4 tonne) which falls below the requirements of the 'Road vehicles (authorisation of special types) (general) order 2003' (STGO), But, if you're planning on towing a loaded trailer, there will be further hoops to jump through, and legislation requires that vehicles and load movements that exceed the standard dimensions need to be pre-notified to the police, the Highways Agency and any bridge authorities. Get hold of a copy of 'Code of practice: lighting and marking for special order, VR1, STGO and C&U loads', published by Highways England in 2016.

You will also need to ensure that you have the appropriate driving licence; see DVLA information booklet INF 52 'Large Vehicles you can drive using your car or lorry licence'

Firm White maked

Driving a vehicle as large as the Antar is not an exercise to be undertaken lightly... Roger Jones, curator at the REME Museum, described it as 'a nightmare' back in 1995 and 'not something to be undertaken for fun' Strangely, there are others who would disagree with him!

If you are seriously planning to drive the beast on the public highway, consider whether it might be sensible to first of all undertake some commercial-vehicle driver training to improve your spatial awareness and manoeuvring skill.

And don't even think about the cost of recovering the beast after a breakdown... it probably won't be much good trying to use your AA card!

Off the road!

The Antar has no serious off-road capabilities, but, let's face it, no privately-owned Antar is going to spend a lot of time off the road, or for

PRESERVATION













PRESERVATION



• The colour and finish, the position of the fuel tank, and the inclusion of paying-on gear for the winch suggest that this is not a standard MoD Mk 2 military Antar, nor is it one of the Snowy Mountains tractors. However, we do know that it was photographed close to the Basingstoke factory.

that matter on it... and it isn't just the matter of single digit fuel consumption. Whilst writing this piece, I approached an Antar-owning friend, asking him about actually driving the machine. He has owned his truck for more than five years, but in response to my enquiry about running it he replied that when he bought it 'the steering was broken and, since fixing it, about five years ago, it's only been round the field a couple of times'

It may well be that the standard fate of a privately-preserved Antar is to sit inside a shed looking huge, imposing... and glorious and to make the odd journey to a military-vehicle show where it will be admired for its sheer size!



Looking after an Antar is not a commitment to be undertaken lightly and is best considered by a small consortium, or team, of part-owners.



A pair of Mk 3 tractors closest to the camera, with a pair of Mk 2s behind, both of the latter with coupled semi-trailers. Having the benefit of a well equipped workshop would certainly help to alleviate some of the pain associated with owning a truck of this size.



PRESERVATION



 Surprisingly, the RAC offers breakdown cover for vehicles up to 44 tons (45 tonne) in weight, with a choice of payment options... getting caught out, without the benefit of such insurance, or of a REME light aid detachment, behind you, will be an expensive business.



 Although photographed at a show of some description, this Mk 3 tractor, dating from 1961, and the semi-trailer onto which is loaded a Centurion tank, remains in military service

WIGHT BUR

For those enthusiasts who may lack the necessary garage space, and who are also of slender means, the only practical way to get your hands on an Antar is to buy a scale model.

Dinky Toys number 660 provides an approximation of the Mk 2 fifth-wheel tractor, but it is very obviously no more than a toy; and for those who prefer a civilian model, there's Dinky Toys number 908, or Dinky Toys number 986. The Italian company Politoys produced an Antar Mk 2 tractor and semi-trailer that was very similar to the Dinky toy. There's also a diecast Matchbox toy (Matchbox Major number 3) supplied complete with a fifth-wheel trailer and a Centurion tank... also available as part of Matchbox gift set G5. And Langley Models offer a slightly-crude ballastbodied Antar in OO gauge (1:76), under the product number G188A.

There's a very attractive Mk 3 with ballast body available from ASAM Models (www.asam.co.uk), coded SM103. The model is produced in resin and metal and includes considerable detail at a scale of 1:48. And Shapeways (www.shapeways.com) offer a 1:144 scale Mk 2 tractor and semi-trailer.

But, by far the best of the bunch is probably the range of Antar tractors, in all three marks, produced as 1:35 resin kits by Accurate Armour, Sadly, although appearing on the company's website (www.accurate-armour.com), these kits do not seem to be available at present.



 Dinky Toys number 660; for those who might prefer a civilian model, there's Dinky Toys number 908, or number 986. Although very obviously no more than a die-cast toy, that's part of the charm of these models.



Matchbox Toys Antar tank transporter and Centurion Mk 3 tank.





THEFINALMORD

What's in a name ...?

ntar was derived from the pre-Islamic Arabian poet warrior, Antar – sometimes Antarah – Ibn Shaddad (AD 525-608). Famed for both the beauty of his poetry, and his considerable powers of strength and endurance in battle, his work is apparently still said to be recited by traditional story-tellers in Arab coffee houses.

And, although it seems unlikely, it has been suggested that the choice of an Arab name was a deliberate attempt to curry favour with the Iraq Petroleum Company... oh, surely not!'



Antarah Ibn Shaddad' otherwise known as 'Antar' was a pre-Islamic Arab knight and poet, famous for both his poetry and his adventurous life... an incongruous connection between the arts of poetry and war!



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SCAMMELL PIONEER

Just as there are a handful of iconic motorcars, so too there is a handful of trucks that exert the same emotional pull. With its appetite for hard work and rugged no-nonsense appearance, the Scammell Pioneer is one such machine. Slow and cumbersome, even for its time, the Pioneer lacked creature comforts - and front wheel brakes - but, my goodness it was unstoppable!

The Pioneer was trialled in the tank transporter role in 1932 but it was to be another five years before it entered service. Ultimately more than 500 examples went into service with the British Army.



DON'T MISS THIS FASCINATING STORY ON SALE 24 APRIL 2020